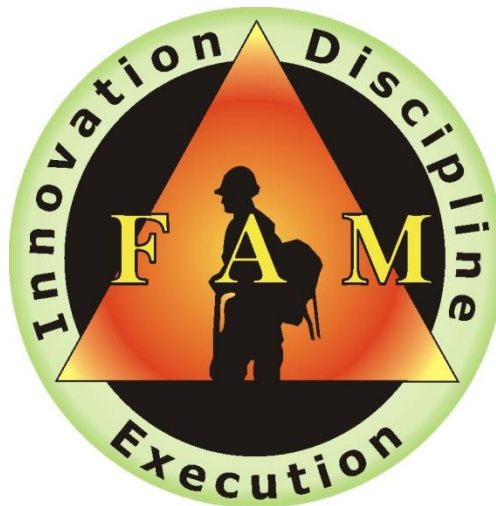


National and Southern Region Aviation Safety and Management Plan 2015



Digest

The table below provides a list of significant changes made from the 2014 National Aviation Safety and Management Plan (NASMP). Note this list is not inclusive of all changes made in the 2015 NASMP.

Section	Description of Change
1.7	Added Verbiage
2.1	Changed R10 oversight to Fire and Aviation are combined with Region 6
2.2	Changed to Deputy Director title to Deputy Director, Aviation, Operations and Risk Management
2.2	Added National Aircraft Coordinator
2.2	Added to Aerial Supervision program responsibilities
2.4	Changed verbiage to Employee Responsibilities
2.7	Changed verbiage to Program Overview
3.20	Revised the Project/Program/Issue Proposal Process
3.3	Added verbiage to Mission Use of Aircraft (Operational Plans)
3.3	Additions to list of Plans
4.5.3	Remove reference to Accident Investigation Guide (Edition 2005) and changes
	Accident Review Board to learning Review Board
5.20	Added new section for Helicopter Bucket and Tank Operations
5.20	Added new section for Helicopter External Load Operations
5.20	Added new section for Night Helicopter Operations
5.24	Added a new section for Water Scooper Operations
5.27	Added Department of Justice (DOJ)
6.9	Added verbiage to Crew Resource Management (CRM) Training
10.8	Removed Appendix 8 NVG Helicopter Ops Go/No-Go Checklist

2015

National Aviation Safety and Management Plan

Signatures and Approval

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Date: 01.29.15

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Date: 29 Jan 2015

Reviewed: /s/ Dan Olsen
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Date: 02/03/2015

Approved: /s/ Tom Harbour
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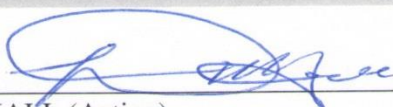
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2015

Regional Aviation Safety and Management Plan

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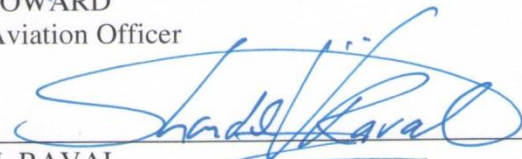
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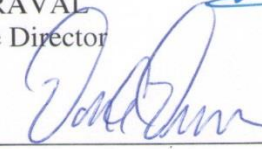
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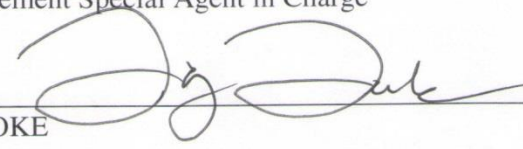
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STEVE RUPPERT
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Date: 04/24/2015

2015

Forest Health Protection/Law Enforcement Management Plan

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2015

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1.0 Aviation Management Plan

1.1 Purpose

The purpose of the Forest Service National Aviation Safety and Management Plan (NASMP) is to describe Washington Office Fire and Aviation Management (FAM) leader's intent, authority, roles and responsibilities, programs, activities, and to provide strategic and operational direction and operational guidance to each organizational level. Individual Regions and Units may supplement this plan when needed. This plan is supplemental to policy and does not replace [Forest Service Manual 5700](#) and [Forest Service Handbook 5709.16](#).

The USDA Forest Service must endeavor to place the safety of employees above all else and ensure recognized hazards are mitigated. The Forest Service's goal is to develop a culture that achieves and maintains a zero accident rate. Prior to conducting any work projects, all risks should be mitigated to the lowest acceptable level. Incorporating [Safety Management Systems \(SMS\)](#) with a strong Quality Assurance (QA) component will improve the operating model for safety, efficiency, and effectiveness.

Regional Supplement: The National Aviation Management Plan (NASMP), along with these Regional Aviation Management Supplements (Regional Aviation Management Plan) defines the aviation program within Southern Region. The operational policies and methods used are intended to be consistent with national policy and pertinent Federal Aviation Regulations (FARs). The Regional Aviation Management Plan addresses where the Region has established more restrictive and conservative operational and safety policies than those established at the National level. The Regional Aviation Management Plan also identifies the responsibilities of the Regional Aviation Program Managers, identifies each position within the organization, and lists tasks and responsibilities.

The NASMP, along with Regional Aviation Management Plan, are to be used by the forests, in conjunction with specific Forest supplements, to plan and execute aviation programs and projects.

Forest Supplement:

1.2 Mission Statement

Aviation Management in FAM supports agency resource management programs through a proactive and professional aviation program that:

- Efficiently develops and coordinates aviation policy and management processes.
- Provides risk management for both aviation programs and aviation operations.
- Utilizes aviation safety assurance and promotion programs.
- Provides support for aircraft acquisition as specified by Forest Service management objectives.
- Develops and promotes a skilled aviation management workforce.
- Supports a systems-wide approach to safety and management considering all functional areas and scales regarding fleet, vendors, cooperators, program, and personnel.

Regional Supplement: The Regional Aviation Group will support the efforts of the Forests to accomplish safe and effective use of aircraft and aerial resources through a systems-wide approach to safety and management. The Regional Aviation Group is committed to:

- Ensure operational decisions are made mindfully, with safety given priority over mission accomplishment
- Providing the best available support to the field
- A cooperative alliance with all employees to identify and resolve hazardous situations before they become unintended outcomes
- Ensuring aviation operations at all levels are focused on the safety of flight crews and other personnel

Forest Supplement:

1.3 Leader's Intent

The Forest Service's aviation program goal is to provide aviation tools that safely and efficiently accomplish missions related to the task of managing national forests. Aircraft are dynamic and high impact resources that can be both expensive and unforgiving when used carelessly. These resources require competent operational oversight; and appropriate utilization of aviation resources can drastically improve operational effectiveness and efficiency, while reducing cost and overall risk. Aviation management requires balanced and pragmatic consideration of multiple complex factors, including safety, the environment, costs and mission goals.

Safety

- Safety is a priority and core value of our organizational culture.
- Provide safe and healthy procedures for all our employees, volunteers, and partners.
- Risk management as part of SMS will be inherent in all aviation missions.
- All aviation personnel are empowered and expected to manage the risks associated with aviation operations, and to make reasonable, prudent, and timely decisions to this effect.
- Plan missions thoroughly, err on the side of conservatism, and respect both your aircraft and the environment in which you operate.
- Individuals will be held accountable for their decisions, which should be based on policy, principles, risk management, training, experience, and situational factors.
- Employees are empowered to report hazards, safety concerns, near misses, incidents, and accidents without fear of reprisal.
- The agency is committed to ensuring our employees are prepared to recognize hazards and take immediate action to mitigate the hazard to an acceptable level.

Professionalism

- Personnel performing aviation functions must meet all qualification requirements of the Forest Service Manuals, Handbooks, and Guides.

Performance

- Personnel perform aviation functions in a safe manner, adhere to policy and procedures, avoid shortcuts, and report potential hazards, safety issues, near misses, incidents, and accidents.

Transparency

- Aviation operations are conducted openly and information regarding safety, cost, effectiveness, and impact is shared with affected partners.

Diversity

- Individual development, employee wellness, and workforce diversity will be encouraged at all levels of the Forest Service aviation program.

Innovation

- With a commitment to aviation safety and efficiency, managers at all levels are responsible for enhancing the aviation program.

Regional Supplement: N/A

Forest Supplement:

1.4 Aviation Doctrine

Management has defined policy and doctrine in [FSM 5700](#) that conveys aviation safety expectations and objectives to employees. Aviation safety policy in [FSM 5700](#) addresses roles, responsibilities, and authorities regarding aviation safety at each organizational level.

This process starts with a clear value-based philosophy of what the organization and its business model should be and what it is about. The relevance of safety principles to Forest Service doctrine for aviation management cannot be overstated. These principles permeate the aviation management business model and drive [SMS](#) program design.

“As an organization our commitment is to manage risk to the lowest practical level.” This effort is an iterative process that requires diligence in the following principle areas:

- Develop and maintain a safety culture that recognizes the value of safety management systems;
- Clearly define the duties, responsibilities, and accountabilities for all employees;
- Provide all employees with adequate training and information to enhance performance;
- Comply with or exceed all regulatory and agency specific requirements;
- Proactively manage the risks associated with our operation;
- Standardize risk management as a part of the aviation operations planning process such that all deliberate/strategic risk assessments follow the general format found in section 3.5 of the [SMS Guide](#).
- Ensure externally supplied services and materials meet or exceed all regulatory and agency specific requirements;
- Determine specific performance goals and consistently measure performance against those goals;
- Conduct internal management and safety reviews to improve performance;
- Encourage all employees to report errors and safety issues in the spirit of a just culture.
- To formalize risk management as a part of the planning process, risk assessments should follow the format found in section 3.5 of the [SMS Guide](#).

Quality Principles

Top management shall ensure that quality policies and procedures are consistent with [SMS](#) requirements defined in this manual. [SMS](#) quality management (assurance and control) processes shall be consistent with agency to improve the efficiency of the entire organization.

1. “Create a constancy of purpose.” Replace short-term reaction with long-term planning. This applies to action plans that make adjustments for weaknesses and deficiencies.
 - Avoid reactive fixes to organizational problems.
 - Define the problems of today and the future.
 - Allocate resources for long-term planning and plan for high quality services.
 - Constantly improve product and service.
2. “Adopt a new philosophy.” Meaningful change can only take place from within the organization. Change focus from operations output to quality service.
 - Quality costs less not more.
 - The call for major change comes from the top.
 - Stop waiting for direction from upper management and instead seek direction by evaluating field customer needs.
3. “Cease dependence on inspection to achieve quality.” Quality does not come from inspection alone. If quality is designed into the process, and standards are fully implemented, then variation is reduced, and there is less need to inspect operations for defects.
 - Inspections should be used to collect data for process control and to provide input to guide management decisions resulting in a reduction in potential errors.
 - Quality cannot be achieved through reactive identification and elimination of errors because it perpetuates the fly/crash/fix/fly cycle.
4. “Do not award business based on price tag alone.” Move towards a single supplier for any one service. Multiple suppliers mean greater potential for variation between service providers. Our actions should be focused on the detection of variations between vendor standards to identify the best service provider. The selection of a single vendor providing best value for cost may reduce errors and cost, validating the transition to fewer vendors.
 - Price alone has no meaning; change focus from lowest cost to best value/cost.
 - Work toward a single source for like types of services.
 - Develop a longer term relationship (contract) between the operation and vendor.
5. “Improve constantly the system of production and service.” Each new action must constantly strive to reduce variation and introduce mitigations that reduce mishaps and improve effectiveness.
 - Quality starts with the intent of management, which is found in directives.
 - Design Quality into the system with a fundamental focus on team work in design.
 - Constantly maintain awareness and continue to reduce waste.

- Constant improvement of the system requires greater efforts than reactively responding to errors and issues.

Aviation Promotion Principles

Management must be committed to the implementation of SMS as their highest priority: to provide safety resources, to continuously improve safety practices, and to provide a framework for responsibility and accountability.

1. “Institute a program of education and self-improvement.” Personnel need a thorough grounding in the principles, tools, and techniques of SMS. People must learn new ways of working together as teams and adopt new behaviors that support the new management philosophy.
 - Educate for higher awareness in management and in customers.
 - Develop team-building skills in employees.
2. “Break barriers among staff areas.” Another idea central to QA is the concept of the ‘internal customer,’ which in our case may mean that management processes, antiquated policies, budget allocations, and hiring restrictions are the barriers to our success. We need to act to correct such inefficiencies.
 - Promote team work to identify internal barriers and satisfy the internal customer.
 - Know your inefficiencies as well as those of your suppliers and customers.
3. “Adopt and institute leadership.” Leadership means designing the system around high standards, building a quality culture, and modeling behavior that exemplifies the values to support such a culture.
 - Remove barriers to foster pride of workmanship and recognize positive outcomes.
 - Leaders must know the work they manage and supervise.
4. “Take action to accomplish the transformation.” Everyone in the organization must work together to facilitate change management.

Forest Service Aviation Managers at all levels in the program should:

- Be proactive within the implementation of the change management process.
- Take pride in the new doctrine and the Quality Assurance Program Plan (QAPP).
- Include a cross section of people to implement the change from the top to the bottom.

1.5 National Aviation Strategic Plan

Aviation use must be determined based on strategic management objectives as determined by Line Officers, identified hazards, risk mitigation, and the probability of success. The risk management process must consider the risks to aircrew, ground resources, and public, weighing them against the risk of forgoing the mission.

The agency aviation program goals are:

1. The aviation program has the right people, in the right places, with the budget and staffing necessary for the work to be completed with the lowest acceptable risk.

2. Aviation leadership is skilled in aviation program management, articulates leader's intent, inspires the workforce, and appropriately manages the program.
3. The aviation program is clearly defined for the Washington Office Headquarters (HQ) and at the Boise detached unit.

The agency is currently updating the Forest Service Aviation Strategic Plan.

Regional Supplement: N/A

Forest Supplement:

1.6 Authority

This plan fulfills the requirements outlined in [FSM 5700](#). This plan sets the standard that will be aviation policy and has been developed to provide standardization and policy for aviation programs. While this document is Forest Service specific, it does incorporate interagency standards.

Regional Supplement: N/A

Forest Supplement:

1.7 General Policy

The policy of the Forest Service requires employees to follow the direction in aviation manuals, handbooks, and the aviation guides as listed in this chapter, under [FSM 5706](#).

Aviation operations require regulations, manuals, guides, and checklists to execute and coordinate operations in a safe and effective manner. Where the terms “shall” and “must” are used in manuals, handbooks, or guides, compliance with those items is mandatory and not discretionary ([FSM 1110.8 – Exhibit 01 Degree of Compliance or Restriction in Directives](#)). These principles should guide employees; they are authoritative, but require employees to apply their judgment in order to solve problems.

Regional Supplement: Each Forest shall supplement the Regional Aviation Management Plan with forest level supplements contained within this document or as a standalone document. The forest level supplements will contain more specific details relating to aviation operations conducted on or for the forest. The Forest Aviation Plan and the Forest Aircraft Incident/Accident Response Guide shall be reviewed and updated annually.

Forest Supplement:

2.0 Aviation Management Organization

2.1 Organization

The Washington Office (WO) Fire and Aviation Management (FAM) is located at the USDA Forest Service National Headquarters in Washington D.C. and has a detached unit in Boise, ID.

The Forest Service has nine Regional Offices and the North East Area located throughout the United States.

Region 1: Missoula, MT

Region 2: Golden, CO

Region 3: Albuquerque, NM

Region 4: Ogden, UT

Region 5: Vallejo, CA

Region 6: Portland, OR

Region 8: Atlanta, GA

Region 9: Milwaukee, WI

Region 10: Juneau, AK (Fire and Aviation are combined with Region 6, Portland, OR)

Northeast Area: Newtown Square, PA

There are five (5) Research Stations, one (1) Institute, and one (1) Laboratory.

Pacific Northwest Research Station: Portland, OR

Pacific Southwest Research Station: Berkeley, CA

Rock Mountain Research Station: Ft. Collins, CO

Northern Research Station: Newtown Square, PA

Southern Research Station: Asheville, NC

International Institute of Tropical Forestry: San Juan, PR

Forest Products Laboratory: Madison, WI

Each Region/Station/Area has several Forests/Units located within their geographical location or area of responsibility.

2.2 Washington Office (WO) Headquarters Staff:

Washington D.C. Staff

Director, Fire and Aviation (FAM)

The Director, FAM, is responsible to the Deputy Chief for State and Private Forestry. The Director, FAM's responsibilities are located in the [FSM 5704.2](#), [FSM 5720.43](#), and the [FSH 5709.19, Chapter 10](#).

Deputy Director, Aviation, Operations and Risk Management

The Deputy Director, Aviation, Operations and Risk Management responsibilities are located in the [FSM 5704.21](#) and the [FSH 570916, Chapter 50](#).

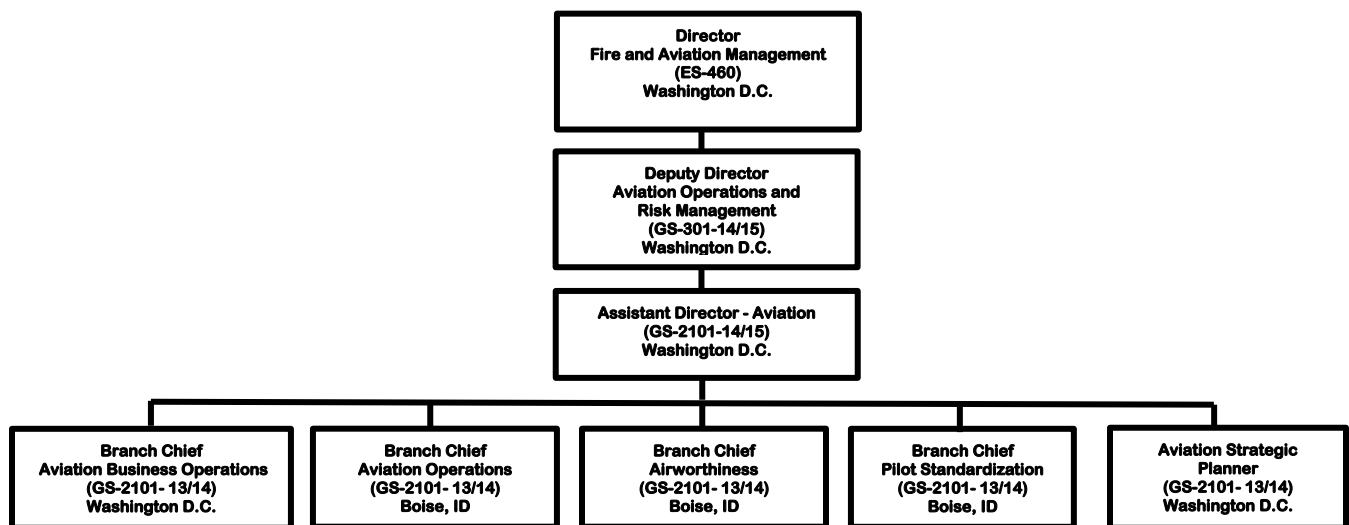
Assistant Director, Aviation

The Assistant Director, Aviation responsibilities are located in the [FSM 5704.21](#). The Assistant Director, Aviation provides national program direction, leadership, and management of the Forest Service aviation program, including coordination of aviation activities with other staffs, agencies, and groups, with an

emphasis on aviation planning, budget, policy, operations, aircraft airworthiness, pilot standardization, aviation training and quality assurance. The Assistant Director, Aviation supervises:

- Branch Chief, Aviation Business Operations – Washington D.C.
- Branch Chief, Aviation Operations – Boise, ID
- Branch Chief, Airworthiness – Boise, ID
- Branch Chief, Pilot Standardization – Boise, ID
- Aviation Strategic Planner – Washington D.C.

FIRE and AVIATION MANAGEMENT
Washington Office Headquarters and Washington Office Boise
Aviation



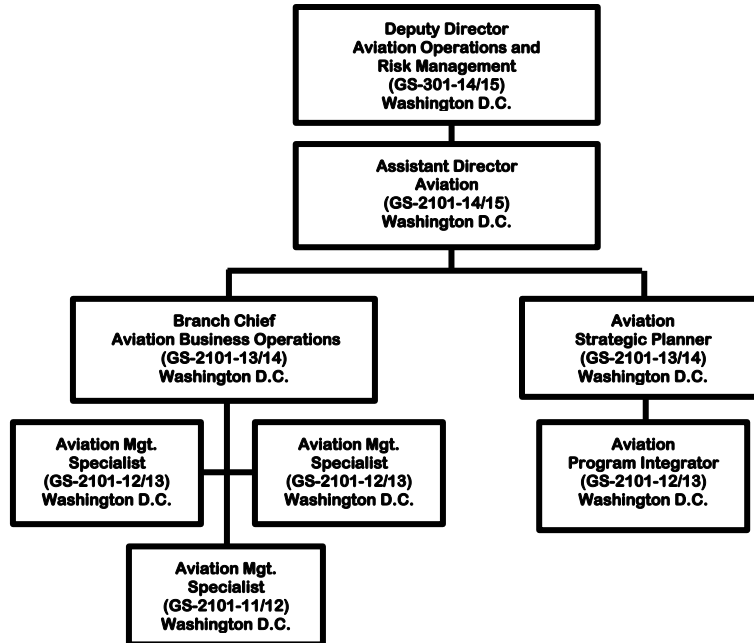
Branch Chief, Aviation Business Operations (ABO)

The Branch Chief provides oversight, planning, coordination, and direction for aviation policy, budget, reporting, and analysis. The Branch Chief ABO supervises three Aviation Management Specialists.

Aviation Strategic Planner

The Aviation Strategic Planner develops aviation strategy for the Forest Service. The Aviation Strategic Planner supervises the Aviation Program Integrator.

FIRE and AVIATION MANAGEMENT
Washington Office Headquarters
Aviation Operations



Branch Chief, Aviation Operations

The Branch Chief, Aviation Operations provides oversight, coordination, and direction of aviation operations conducted by the National Office, Regions, Stations and Area. The Branch Chief supervises the National Helicopter Program Manager, National Airtanker Program Manager, National Aircraft Coordinator, National Aerial Supervision/Light Fixed Wing Program Manager, National Helicopter Operations Specialist, National Smokejumper/Large Fixed Wing Program Manager, and National Rappel Specialist. The Branch Chief's responsibilities are located in the [FSM 5704.22](#) and [FSH 5709.16, Chapter 10, 10.41c.](#)

National Helicopter Program Manager

The National Helicopter Program Manager:

- Provides oversight for the helicopter program.
- Serves as principal helicopter program advisor to National Contracting, Fire and Aviation HQ staff and the Regions in the development and implementation of policies, programs, and standard practices for helicopter programs and specialized projects.
- Responsible for performing contract helicopter inspections and pilot approvals.
- Serves as the contact and coordination point for industry groups and cooperating agencies regarding contract helicopter approvals and operations.

National Airtanker Program Manager

The National Airtanker Program Manager provides national airtanker program leadership, coordination, oversight, and interagency cooperation.

National Aircraft Coordinator

The National Aircraft Coordinator is responsible for coordinating the efficient use of airtankers, helicopters, lead planes and ASMs, and other aircraft as assigned. Movement of aircraft is coordinated with the National Interagency Coordination Center.

- Manages the Defense Logistics Administration fuel program
- May provide technical oversight, reporting and Contracting Officer Technical Representation (COTR) support for nationally contracted aircraft

National Aerial Supervision/Light Fixed-Wing Program Manager

The National Aerial Supervision/Light Fixed-Wing Program Manager provides national program leadership, coordination, and interagency cooperation for the aerial supervision program and advisor to Contracting, Fire and Aviation HQ staff and Regions in the development and implementation of policies, programs, and standard practices for the light fixed-wing aircraft and programs. The aerial supervision program consists of air tactical, lead plane, aerial supervision module and helicopter coordinator operations.

National Helicopter Operations Specialist (NHOS)

The National Helicopter Operations Specialist is responsible for the oversight, coordination, and direction of helicopter operations activities conducted by the National Office. The NHOS:

- Provides primary technical oversight and support for WO contracted helicopters, including the responsibility for contract pilot approval, either in person or through regional/interagency pilot inspector designees.
- Provides oversight and assistance to regional helicopter program managers.

National Smokejumper and Large Fixed-Wing Program Manager

The National Smokejumper and Large Fixed-Wing Program Manager provides national program leadership, coordination, and interagency cooperation in the smokejumper program and is program advisor to Contracting, Fire and Aviation HQ staff, and Regions in the development and implementation of policies, programs, and standard practices for large fixed-wing aircraft and programs.

National Rappel Specialist (NRS)

The NRS is responsible for the oversight in developing, recommending and implementing rappel standards, objectives, plans, and policies for the national rappel program.

The NRS:

- Provides oversight and continuous coordination of the national rappel program
- Assures standardization, quality assurance, integration and coordination among the rappel program to ensure that the program and equipment reflect aviation management policy direction, objectives, and regulations.

Branch Chief, Airworthiness

The Branch Chief supervises Aviation Maintenance Inspectors (Airworthiness), Aviation Safety Inspectors (Avionics), Aeronautical/Aerospace Engineer, and an Aviation Budget Analyst. The responsibilities of the Branch Chief are in the FSM 5704.23.

Aviation Safety Inspectors – Airworthiness (5)

The Aviation Safety Inspectors – Airworthiness:

- Provide oversight for delegated National/Regional program areas.
- Perform National and Regional Aviation program quality assurance, inspections and evaluations to support Forest Service.
- Establish work programs for inspection, monitoring, audits and surveillance.
- Evaluates compliance with Forest Service policy and [Federal Aviation Regulations \(14 CFR\)](#) with respect to airworthiness, maintenance, preventive maintenance, and alteration programs.
- Provides expert technical representation on agency and interagency working groups.
- Prepares and reviews technical specifications for aircraft, aircraft equipment/modifications, maintenance, and inspection requirements

Aviation Safety Inspectors – Avionics (2)

The Aviation Safety Inspectors – Avionics:

- Performs National and Regional aviation avionics program management, including planning, organizing, implementing, and controlling the aviation avionics program.
- Accomplishes equipment, aircraft, and operator inspections and evaluation to support the Forest Service.
- Evaluates compliance with Forest Service policy and [Federal Aviation Regulations \(14 CFR\)](#) with respect to avionics, avionics maintenance, avionics installations, and alteration programs.
- Inspects the avionics of multi-engine piston, or twin-engine turboprop aircraft as well as various fixed and rotor wing aircraft owned, contracted by or cooperated with by the Forest Service.
- Prepares and reviews technical specifications for avionics and inspection requirements, contract rewrite evaluations (e.g., Subject Matter Expert) and contract pre-award evaluation.
- Submits findings and recommendations to the National and/or Regional office which result from surveillance and inspections of aircraft.

Aeronautical/Aerospace Engineer (1)

The Aeronautical/ Aerospace Engineer:

- Provides oversight of Forest Service owned Type Certified Data Sheets (TCDS) and Supplemental Type Certificates (STC), and the Forest Service Operational Loads Monitoring (OLM) Program.
- Assists in the evaluation of proposed new equipment and aircraft modifications.
- Member of the Forest Service Airworthiness Working Group and/or the Interagency Airworthiness Practices Board.
- Interfaces with engineering representatives from aircraft and equipment manufacturers.

- Makes up a part of the airworthiness approval process for UAS utilized by the Forest Service.

Aviation Budget Analyst (1)

The Aviation Budget Analyst is responsible for analyzing and evaluating aviation cost and use data for aviation plans and reports; aviation business cases; managing projects; financial analysis and assessment of compliance with laws and regulations. The Aviation Budget Analyst also completes the Federal Aviation Information Reporting Systems reporting and working capital fund analysis and reports.

Branch Chief, Pilot Standardization

The Branch Chief supervises a Fixed-Wing Standardization Pilot, Helicopter Standardization Pilot, and Helicopter Inspector Pilots. The Branch Chief, Pilot Standardization:

- Identifies and approves qualified pilot instructor, check, and inspector pilots.
- Maintains current listings, including all mission and aircraft authorizations, of all qualified instructor, check, and inspector pilots.

National Fixed-Wing Standardization Pilot (1)

The National Fixed-Wing Standardization responsibilities are in the [FSH 5709.16, Chapter 20, 20.42.](#)

National Helicopter Standardization Pilot (1)

The National Helicopter Standardization responsibilities are in the [FSH 5709.16, Chapter 20, 20.44.](#)

National Helicopter Inspector Pilots (4)

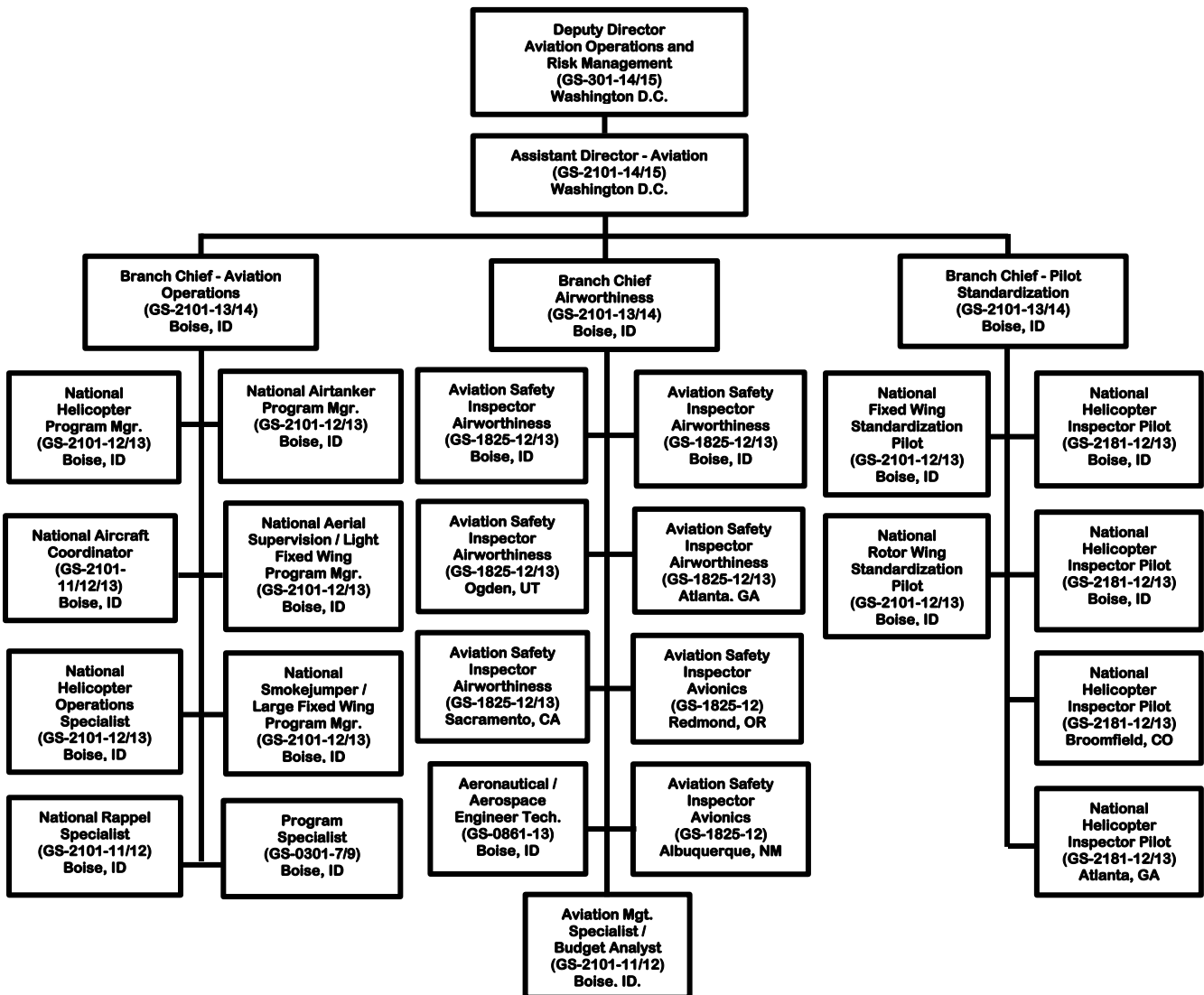
The National Helicopter Inspector Pilots:

- Provides leadership and oversight for the development and implementation of a national helicopter pilot and training program.
- Provides expertise necessary to support the USFS National Standardization and Quality Assurance initiative for oversight of national contract operations.
- Administers pilot evaluations for the purpose of determining an individual's suitability to perform special use missions typical of natural resource operations.
- Provides technical oversight of pilots, aircraft, and equipment used in support of agency missions.

Two NHIPs are stationed in Boise, 2 virtual (Colorado and Georgia).

RE and AVIATION MANAGEMENT

Washington Office Boise Aviation Operations, Air Worthiness, and Pilot Standardization



Assistant Director, Risk Management

The Assistant Director, Risk Management supervises one Branch Chief, Aviation Safety Management Systems.

Branch Chief, Aviation Safety Management Systems

This position has the operational responsibility for development, implementation, and monitoring of the Aviation [Safety Management Systems](#), including oversight of the following key SMS components:

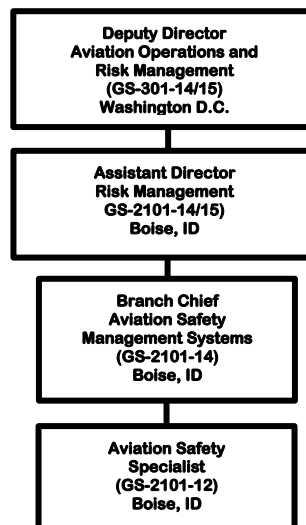
- Policy, including managing and coordinating implementation of the National Aviation Safety Management Plan.
- Risk management.
- Safety Assurance.
- Safety Promotion, including training programs.

- Reporting accidents and incidents to the Director, Fire and Aviation Management Staff, Washington Office and to Forest Service and Department Safety and Health officials.
- Determining the classification of mishaps as accidents, incidents with potential or incidents.
- Management and oversight of Aviation Safety Systems including; National Aviation Safety Center, System Safety Enterprise Team, National Aviation Safety Council, [SAFECON](#) reporting system, aviation safety training and education.
- Maintains a process for data collection and analysis as well as evaluation of aviation risk management and operational safety.
- Establishes safety criteria and standards for National aviation contracts.
- Coordinates with the National Aviation Officer, Logistics, to assure aircraft airworthiness standards and aircraft selection in Agency and service provider aircraft types and provides guidance for final fleet composition.
- Provides program oversight and direction for aviation education and training, including interagency aviation training (IAT), Advanced Aviation Management Training (AAMT) and Lessons Learned.

National Aviation Safety Specialist

The National Aviation Safety Specialist is responsible for service-wide programs involving the development and implementation of plans and programs in aviation safety and standardization for aviation safety programs.

Washington Office Boise Fire and Aviation Management Risk Management



Forest Health Protection Aviation Safety Manager

The Forest Health Protection National Aviation Safety Manager (FHP NASM) is responsible for coordinating forest health aviation safety and operations with the appropriate Regional Aviation Safety Manager, Regional Aviation Officer or Unit Aviation Officer.

2.3 Regional Office (RO) Staff

Regional level aviation organizations vary based on workload and overall organization. The Regional Aviation Officer and Regional Aviation Safety Manager are the two consistent positions.

Regional Supplement: The underlying reason for aviation positions in the Regional Office organization is the institutional concern for aviation safety. All employees involved in aviation operations are responsible for taking a proactive approach to aviation safety. The proactive person has planned and organized duties in a way that allows events to be controlled, resulting in the desired outcome. Planning affords each of us the opportunity to anticipate possible complications in order to have an alternative. When events intervene, the proactive person will analyze the situation, discuss, evaluate, decide, and implement an alternative tactic

Aviation organizations are comprised of diverse experts/professionals in a variety of positions that all have safety responsibilities. The following key positions provide the leadership, guidance, advisement, promotion, and liaison required to have a successful accident prevention program

Regional Forester

Regional Forester responsibilities are located in [FSM 5704.3](#).

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Regional Aviation Officer (RAO)

The RAO is responsible for the oversight, coordination, and direction of aviation operations activities conducted by the Regional Office. The RAO responsibilities are located in the [FSM 5704.3](#), [FSH 5709.16](#), [Chapter 10, 10.42b](#) and [FSM 5720.48b](#).

Regional Supplement: The primary role of the Regional Aviation Officer (RAO) is to provide program leadership and direction. This position is the focal point for setting the tone for the level of professionalism expected within the aviation function and executing a safe and effective Working Capital Fund (WCF) flight operation. The RAO and Aviation Staff communicate institutional values and level of acceptable risk to those executing and managing contract and internal aviation operations. The activities of the RAO are meant to unify the efforts of Regional aviation experts/professionals and develop a team approach in achieving safety goals and objectives while providing aviation support to the forests and cooperators.

The RAO is responsible for providing guidance, advice and support to the Forest Aviation Officers (FAO) from each National Forest in the Pacific Southwest Region. As leader of the Regional

Aviation Unit, the RAO is responsible for maintaining a fully qualified staff of aviation experts in order to support the forests in all phases of aviation activities.

RAO Responsibility

- a. Monitor Forest, District, and Project aviation planning as well as qualifications of Forest Service employees involved in aviation operations.
- b. Assist Forest Aviation Officers in the development of aviation-related plans and recommend changes to those Forest plans and aviation operations.
- c. Provide assigned specialized aviation training to field units and employees.
- d. Provide technical input to Contracting Officers for development of standard contract specifications.
- e. Provide aircraft and pilot inspections and approvals as required by Forest Service direction, cooperative agreements, and contract specifications.
- f. Conduct safety evaluations of field aviation operations on a regular basis.
- g. Monitor contract and employee pilot performance and provide every opportunity for employee pilots to expand their knowledge and cultivate their skills.
- h. Provide for training, check rides, and approvals of Forest Service aviation employees as required by Forest Service Manual, Handbooks, and operating guides.

Regional Aviation Safety Managers (RASM)

The RASM reports to the Director or the Deputy Director and are responsible for implementation, fostering and promoting SMS, including Policy, Risk Management, Assurance and Promotion. Their responsibilities are located in the [FSM 5720.48d](#).

Regional Supplement: The RASM serves as the principal advisor to the Director and RAO on all aviation safety matters and is a critical member of the Region's Aviation Management Team. This position is the focal point for the Region's endeavors in promoting safety awareness and developing safe attitudes in those people directly and indirectly involved in aviation operations. The RASM provides Regional direction, guidance, and oversight of the SMS and aviation training programs. Evaluations and appraisals are conducted to determine the level of compliance and effectiveness of existing aviation safety activities. The RASM recommends actions necessary to enhance the Forest Service aviation Safety Culture.

The RASM is responsible for providing guidance, support, and advice to the National Forests within the Pacific Southwest Region regarding aviation safety issues. This is done primarily through the Forest Line Officers, Forest Aviation Officers, Dispatchers, and Aviation managers. The RASM also has responsibility for aviation training hosted at the Regional level.

RASM Responsibility

- a. Assist Forest Aviation Officers in the development of aviation-related safety plans and recommend changes to these Forest plans and aviation project operations.
- b. Provides oversight of aviation planning, training, contract specifications, contract administration support, and recommend changes to the Director and RAO.
- c. Coordinate ASTAT safety evaluations and site visits of field aviation operations during periods of high aviation use.
- d. Participate on selected safety evaluations with other aviation staff members to review the ground operation monitoring programs and recommend changes to the RAO and Director
- e. Monitor follow-up actions on recommended actions from safety evaluations, from formal reviews, and from accident Boards of Review.
- f. Review contract and employee pilot training and monitoring activities to ensure compliance with Forest Service direction and make recommendations for changes to the Director and RAO.
- g. Ensure that all aviation accidents and incidents are investigated and corrective actions are followed up on to prevent future reoccurrences.
- h. Provide trend monitoring of all accidents and incidents from 5700-14 reports, to help the RAO and Director prioritize the staff's

Regional Supplement:

Regional Office Aviation Program Managers

The following program managers work under the direction of the RAO: Each position held in the aviation unit has its own position description (PD) and each person in these positions is defined as a program manager.

These program management positions are:

Helicopter Inspector Pilot

The Regional Helicopter Inspector Pilot (HIP) serves as a technical advisor and reports directly to the Regional Helicopter Program Manager. The Regional Helicopter Inspector Pilot is responsible for approving and carding all helicopter pilots in the Pacific Southwest Region. This is primarily done through check flights and pilot briefings during helicopter contract pre-work inspections. The Regional Helicopter Inspector Pilot also gives call-when-needed helicopter pilot approvals. These approvals and certifications include checking for such skills as rappelling, aerial ignition, seeding, long line operation off-site landing areas selection and procedures, pilot navigational techniques, and emergency procedures. The Forest Service Load Calculations process must be discussed and the contract pilot must demonstrate thorough knowledge of the system. The Regional Helicopter Inspector Pilot must also maintain a thorough knowledge of helicopter model capabilities and limitations sufficient to advise and support forest helicopter requests and needs. Liaison must also be maintained between the forests and the helicopter operators under contract to the Forest Service.

The Regional Helicopter Inspector Pilot also assists the RASM and the RAO in all phases of helicopter safety, including reporting hazards and potential problems in helicopter operations, and investigating helicopter incidents as directed by the RASM.

Regional Helicopter Operations Specialist

The Regional Helicopter Operations Specialist (HOS) serves as a technical representative and reports directly to the Regional Helicopter Program Manager. The Helicopter Operations Specialist must be an expert in the varied field of helicopter operations, which includes such areas as helicopter rappelling, aerial ignition, long-line operations, transportation of hazardous materials and helicopter safety.

The Helicopter Operations Specialist must maintain a close working relationship with the Helicopter Inspector Pilot and operate as a team. The main focus of this position is to ensure safe and efficient helicopter operations on the national forests in the Southern Region.

The Helicopter Operations Specialist duties include the training of all helicopter managers and helicopter specialty skill positions in the Region, and setting up the exclusive use and call-when-needed contracts, as requested by the forests. This position also evaluates helicopter programs and initiates recommendations for changes required to conform to written policy and ensures compliance with Forest Service Manual and Interagency Helicopter Operations Guide (IHOG.)

Annually, the Helicopter Operations Specialist conducts the Interagency Helicopter Managers' Workshop and presents call-when-needed training as needed. In addition, the Helicopter Operations Specialist assists the forests in conducting other helicopter training such as Interagency Helicopter Training Guide (S-271) and Basic Air Operations (S-270). such as Interagency Helicopter Training Guide (S-271) and Basic Air Operations (S-270). As directed by the Washington Office, the HOS maintains a list of FS Helicopter Managers in the Region.

The Helicopter Operations Specialist must visit each Forest Service Exclusive Use Helibase at least once biennially to conduct a Safety/Service Visit or a formal inspection, as deemed necessary by the Regional Aviation Officer.

The Helicopter Operations Specialist contributes to the Regional aviation safety program by advising the RASM and the RAO of any safety problems or hazards associated with the helicopter program and assists in investigation of helicopter incidents as directed by the RASM.

Fixed Wing Operations Specialist: POSITION VACANT

The Regional Fixed Wing Operations Specialist (FWOS) serves as a technical representative and reports directly to the Regional Aviation Officer. The Fixed Wing Operations Specialist must be an expert in the field of fixed wing operations, which includes the areas of Airtankers/Airtanker base programs, SEATs/SEAT base

programs, Light Fixed Wing Aircraft Program, Air Tactical Group Supervisor Program, and aerial recon, and fixed wing safety.

The Fixed Wing Operations Specialist must maintain a close working relationship with the LFW Aircraft Program Manager, Aircraft Maintenance Inspector, Regional Contracting Officer, and Forest Aviation Officers and work as a team. Upon request from a Forest, the FWOS will assist in setting up exclusive-use and call-when-needed contracts or BPA's for fixed wing aircraft. The most important duty is to ensure a safe and efficient fixed wing operation.

The Fixed Wing Operations Specialist duties include support to Air Tanker Base Managers and the Air Tactical Group Supervisor's with training, maintaining currency, and maintenance of bases. Support forest and Interagency Aviation training to include S-370 Intermediate Air Operations, S-270 Basic Air Ops, S-378 Air Tactical Group Supervisor, and other aviation training as needed. Annually the Fixed Wing Operations Specialist will conduct the Interagency Airtanker Base Manager's Workshop and the Interagency Air Tactical Group Supervisor's Workshop.

The Fixed Wing Base Operations Specialist along with the LFW Aircraft Program Manager will visit each Forest Service Airtanker Base at least once each season to conduct a Safety/Service visit and/or formal inspection, as deemed necessary by the Regional Aviation Officer. The FWOS will review SEAT Base Operations formally or informally upon the request of Forest/Agency's or Regional Aviation Officer.

The Fixed Wing Operations Specialist contributes to the Regional aviation safety program by advising the RASM and the RAO of any safety problems or hazards associated with the Fixed Wing program.

Regional Aviation Safety Inspector (ASI), Airworthiness / Regional Aviation Maintenance Program Manager

The ASI, Airworthiness is responsible for the maintenance and airworthiness program conducted by the Regional Office. The ASI responsibilities are located in the [FSH 5709.16, Chapter 40, 40.44, 40.45](#) and in the [FS Aircraft Inspection Guide \(AIG\)](#).

The Regional Aviation Maintenance Inspector (RAMI) serves as a technical representative and reports directly to the Regional Aviation Officer. The Aviation Maintenance Inspector provides aircraft airworthiness expertise to the Region and the National Forests in the Southern Region. The Aviation Maintenance Inspector is responsible for inspecting and approving all contract and cooperator aircraft, except for point-to-point transportation, for airworthiness and contract compliance. The Aviation Maintenance Inspector is authorized to recommend return to contract availability for any aircraft removed from service for mechanical deficiency after the necessary work has been performed and documented by a qualified aircraft mechanic.

The Aviation Maintenance Inspector is a highly trained, licensed Aircraft Maintenance Technician, (Airframe and Power plant) and holds an Inspector Authorization (IA) issued by the Federal Aviation Administration. The Inspector Authorization allows the Aviation Maintenance Inspector to act for the Federal Aviation Administration Administrator in matters of aircraft worthiness.

The Aviation Maintenance Inspector contributes to the aviation safety program by advising the RASM and the RAO of any problems or hazards pertaining to aircraft maintenance issues. Also, investigates incidents as directed by the RASM.

Regional Aviation Safety Inspectors – Avionics POSITION VACANT

The ASI, Avionics, performs Regional aviation avionics program management, including planning, organizing, implementing and controlling the aviation avionics program. The ASI accomplishes equipment, aircraft, and operator inspections and evaluation to support the National and Regional Forest Service.

The Regional Avionics Inspector serves as a technical representative. The Avionics Inspector provides aircraft airworthiness expertise to the Region and the National Forests in the Southern Region. Conducts and oversees contracted avionic maintenance tasks on agency used aircraft and performs fleet and contract aircraft inspections. The Avionics Inspector inspects various fixed and rotor wing aircraft owned, contracted by and cooperated with by the US Forest Service, except for point-to-point transportation, for airworthiness and contract compliance. The Avionics Inspector is authorized to return to contract availability any aircraft removed from service for avionics deficiency after the necessary work has been performed and documented by a qualified technician.

The Avionics Inspector provides technical input to Contracting Officers for development of standard contract specifications. Evaluates compliance with US Forest Service policy and Federal Aviation Regulations (14 CFR) with respect to avionics, avionics maintenance, avionics installations and alteration programs. Prepares and reviews technical specifications for avionics and inspection requirements, contract rewrite evaluations and contract pre-award evaluation. Continuously monitors the activities of aviation organizations to determine if they are following agency policy, their authorized program, federal regulations, and accepted safety practices. Submits findings and recommendations to the National and or Regional office which result from surveillance and inspections of aircraft.

The Avionics Inspector contributes to the aviation safety program by advising the RASM and the RAO of any problems or hazards pertaining to aircraft avionics issues.

GACC Aircraft Coordinator

The GACC Aircraft Coordinator ensures regional aircraft coordination, scheduling, and tracking. Is also responsible for the regional dispatch of lead planes, light airplanes, helicopters, and air tankers, processes resource orders for aircraft received from within the geographical area and from NICC, coordinates Temporary Flight Restriction (FAR 91.137 TFR), Notice to Airmen (NOTAM), and Temporary Tower requests with Federal Aviation Administration (FAA). Serves as the primary contact for aviation dispatch related support and questions.

2.4 Forest Staff

Line Officer

Line Officer responsibilities are located in [FSM 5704.6](#), [FSM 5711.04](#), and [FSM 5720.48a](#).

Forest Aviation Officer/Unit Aviation Officer (FAO/UAO)

The FAO/UAO manages the forest aviation program by providing technical and management direction of aviation resources to support Forest programs. The FAO/UAO should meet the Aviation Manager qualifications in [IAT Guide](#). The FAO/UAO responsibilities are located in the ([FSM 5704.61](#)). Some forests employ “service-first” positions to fulfill the FAO/UAO responsibilities. On those units, the position is referred to as a UAO.

Regional Supplement: The Forest Aviation Officer (FAO) is the primary authority for aviation activities that occur at the Forest level. This position provides liaison between the Regional Aviation Staff, Forest management, and persons conducting aviation activities on the Forest. The FAO plans and organizes aviation projects by coordinating with aircraft operators and ensuring compliance with policies and regulations governing air operations. This is the central point of convergence for the gathering and dissemination of information that emphasizes the Agency’s, Regional Forester’s, Forest Supervisor’s, and District Ranger’s concern for conducting safe aviation operations.

FAO Responsibilities

- a. Ensure that Forest Plans, Forest Aviation Plans, Aviation Base Security Plans, Aviation Project Plans, Aviation Crash/Rescue Plan, Aviation Base Operating Plans, Fire Management Action Plans, Aerial Hazard Maps, and other aviation-related plans are developed, completed, apply to the actual activity, and address aviation safety and security needs.
- b. Ensure that all aviation-related plans are approved by the appropriate Forest Line Officer, employees working on aviation activities are aware of the plan contents and limits, and lines of authority and responsibility are established and understood in general and on individual operations.
- c. Provide coordination between forest aviation planning activities and aviation operations with the appropriate Regional aviation specialist.
- d. Monitor Forest Service and contract pilot performance and request RAO assistance in resolving any areas of concern to assure safe aviation operations.
- e. Ensure that Forest aviation personnel and contract employees are properly trained for the activity and job they are assigned to accomplish.
- f. Monitor all aviation ground support operations for compliance to the approved Forest plans, safety practices and ensure any non-compliance are corrected.

FAO Activities

Participate in and supervise as appropriate, forest-level activities and programs involving aviation.

- a. Analyze aviation safety needs, problem areas, and preventive measures.
- b. Advise planners regarding aircraft suitability for overall needs or specific projects.
- c. Compare capabilities and costs of various aircraft and systems in relation to planned needs.
- d. Analyze aviation training needs such as air observers, helicopter crewmembers, aviation base workers, and COR liaison for all forest employees.
- e. Participate in aviation training.
- f. Secure and provide information and technical direction for all Forest aviation operations.
- g. Participate in aviation programs with cooperators.
- h. Coordinate technical inspections and approvals of all Forest aviation operations, equipment, aircraft, and facilities.
- i. Inspect aviation facilities and operations to assure compliance with directives, policy, contract specifications, and Forest aviation plans.
- j. Coordinate with various aviation specialists, airport authorities, contractors, suppliers, CORs, Forest Safety Manager, etc.
- k. Determine need for additional monitoring of aviation operations.
- l. Ensure de-confliction of airspace occurs with military.
- m. Draft and/or review accident and incident reports.

FAO Training

Successful completion of the Interagency Aviation Training (IAT) modules listed for the Aviation Manager position within the first two years is required. Position requirements, ACE registration and some on-line modules may be found at; <https://www.iat.gov>

Successful completion of the following national, regional, and forest training courses within the first two years is recommended:

- a. I-300 Intermediate ICS
- b. S-270 Basic Aviation Operations
- c. Interagency Aviation Training (IAT) modules for Aviation Manager
- d. S-371 Helibase Manager
- e. Geographic Area Air Tanker Base Manager

Forest Supplement:

All Employees

All employees involved in aviation activities are responsible for acquiring, knowing, and following aviation policy and regulations ([FSM 5704.09](#), [FSM 5720.46](#)). Forest Service employees shall fly only in approved government (refer to Government Aircraft definition in [FSM 5705](#)) aircraft flown by an approved pilot(s). Approvals are specified in [FSM 5703.1](#), [5712.3](#), [5712.4](#) and [5713.4](#).

Employees are empowered and expected to manage the risks of aviation operations, and make reasonable and prudent decisions to accomplish the mission. Employees shall use an operational risk management process to evaluate the risk and hazards prior to every flight. Individuals will be held accountable for their decisions, which should be based on policy, principles, training, experience, and the given situation. Forest Service employees have the responsibility to immediately report to the appropriate official any instances of unsafe equipment or aviation operations ([FSM 5723.1](#) and [5720.46](#)).

Regional Supplement:

All Employees: Must report potential and actual problems, incidents, and accidents using the SAFECOM reporting system. <https://www.safecom.gov>

Must use the appropriate personal protective and life support equipment.

Forest Supplement:

2.5 Additional Aviation Positions

Station Aviation Officer (SAO)

The SAO coordinates the station aviation activities with the appropriate FAO/UAO and/or the RAO. The SAO may provide general aviation oversight and technical advice under the guidance of the FAO/UAO or RAO. The SAO will meet the Aviation Manager qualifications in [IAT Guide](#).

Regional Supplement: N/A

Forest/ Station Supplement:

2.6 National Groups/Committees

National Aviation Team (NAT)

The National Aviation Team consists of all members of the Aviation Division, including the Assistant Director, Aviation; five Branch Chiefs; Aviation Strategic Planner; Program Managers and supporting staff.

NAT Branch Chiefs Committee

The NAT Branch Chiefs Committee is comprised of all the Aviation Branch Chiefs (Aviation Operations / Quality Assurance, Airworthiness / Quality Assurance, Pilot Standardization / Quality Assurance, Aviation Business Operations, and Aviation Safety Management Systems)

Interagency Committee on Aviation Policy (ICAP)

This committee is chaired by the General Services Administration (GSA) and includes all federal agencies that own or hire aircraft. GSA established the committee at the direction of the President's Office of Management and Budget (OMB). GSA publishes regulatory policy for aircraft management in [41 Code of Federal Regulations \(CFR\) 102-33](#), "Management of Government Aircraft," and [41 CFR 300-3; 301-10; and 301-70](#), "Travel on Government Aircraft."

[OMB Circular A-126](#), "Improving the Management and Use of Government Aircraft, provides the basic guidance for management of federal aviation programs and for travel on government aircraft."

National Interagency Aviation Council (NIAC)

The Committee is established to serve as a body of resident aviation experts, assisting NWCG with realizing opportunities for enhanced safety, effectiveness, and efficiency in aviation related operations, procedures, programs and coordination. [NIAC](#) is chartered under the Equipment and Technology Branch of NWCG.

Committee membership will reflect a mix of people who are knowledgeable in the subject area and who represent NWCG member agencies and organizations, including representation from Department of Interior (DOI) Office of Aviation Services (OAS).

The WO Branch Chiefs, Aviation Operations and Pilot Standardization are designated by the WO Assistant Director, Aviation as Forest Service representatives to NIAC.

NIAC Sub Committees include:

- Automated Flight Following Subcommittee
- Interagency Aerial Supervision Subcommittee
- Interagency Airspace Subcommittee
- Interagency Airtanker Base Operations Subcommittee
- Interagency Airtanker Board (IAB)
- Interagency Aviation Training Subcommittee (IAT)
- Interagency SEAT Board
- Smokejumper Aircraft Screening and Evaluation Board (SASEB)
- Interagency Helicopter Operations Subcommittee (IHops)
 - Aerial Capture Eradication and Tagging Animals Unit (ACETA)
 - Interagency Aerial Ignition Unit
 - Helitorch Subunit
 - Interagency Helicopter Operations Guide Unit (IHOG)
 - Interagency Helicopter Rappel Unit
 - Rappel Equipment Subunit
 - Helicopter Short Haul Unit

Regional Supplement: Regional Aviation Working Groups and Committees

Dispatch Committee: Kai Olsen as the CACC committee member; 678-320-3001wk 678-836-3995cel.

2.7 Program Overview

The Forest Service aviation program is comprised of national, regional and forest organizations. All agency-owned and operated (WCF) aircraft are registered to the Washington Office and hosted by regions or the national office. The WO is the lead for most of the contracted aircraft used by the interagency wildland firefighting community including Very Large Airtankers (VLATs), Large Airtankers (LATs), smokejumper aircraft, Type I, II and III helicopters, Aerial Supervision Module (ASM) airplanes, Infrared (IR) airplanes, and water scoopers. These aircraft are acquired for the primary use of the Forest Service; however, they are available for use by other federal, state, and local partners and cooperators as specified in agency policy, agreements and procedures.

Regions and Forests also contract for aircraft including, but not limited to, Forest Health Protection (FHP) airplanes, Type III helicopters, aerial tactical airplanes, and other fire and resource management aircraft.

The majority of Forest Service aviation use is for wildland fire management and support. Other aviation uses include forest health protection, wildlife survey, law enforcement, and projects related to natural resource management and administrative flights.

Regional Supplement: N/A

Forest Supplement:

A contact list for the Regional Aviation Staff can be found in Appendix 10.6.

Desired Workforce

The workforce within the Regional aviation program must be highly trained, skilled, and competent in the performance of assigned tasks. Employees must be receptive to new ideas and ways of doing assigned tasks. They must always be aware of the inherent danger of aviation activities and be safety-conscious. It is the responsibility of management to assure that these principles are met.

Multicultural Diversity Objectives

The workforce within the Regional aviation program should reflect the national distribution of diversity of persons within the related fields of aviation. Efforts will be made to encourage experienced, knowledgeable, and competent people of ethnical, cultural, or sexual diversity to become members of the aviation program.

Prohibition against Discrimination

The Regional aviation organization shall not deny employment, continued employment, or career advancement in any way contrary to any federal law or mandate. The Regional aviation organization will not tolerate or support any interference of anyone's performance or career for reasons of any discriminatory act, such as bias or harassment, racial or otherwise.

Regional Supplement: N/A

Forest Supplement:

3.0 Administration

3.1 General

The administration section establishes management responsibilities, policies, and procedures for the administration of the aviation program in the Forest Service.

Regional Supplement: N/A

Forest Supplement:

3.2 Reporting and Documentation Requirements

The Forest Service is responsible for providing for the following;

- Responses to Department of Agriculture [Office of Inspector General \(OIG\)](#) audits.
- Responses to Congressional inquiries.
- Meeting the requirement of the [Federal Requirement for Federal Aviation for Interactive Reporting System \(FAIRS\)](#).
- Approving and documenting senior executive travel in agency and agency-procured aircraft as required by [OMB Circular A-126](#).
- Retaining contract management records for 6.5 years.
- Complying as applicable with existing records holds and freezes for all records.
- Responding to [Freedom of Information Act](#) (FOIA) requests – All aviation records are subject to Freedom of Information Requests.

Regional Supplement: N/A

Forest Supplement:

3.3 Aviation Plans

All Aviation Management Plans must be approved by the appropriate line officer ([FSM 5711.04](#)).

Regional Supplement: Each Forest shall supplement this plan with forest level Aviation Plans containing more specific details relating to aviation operations conducted on or for the forest. The Forest Aviation Plan and the Forest Aircraft Incident/Accident Response Guide shall be reviewed and updated annually.

Each Forest shall supplement the Regional Aviation Security Plan with **forest level base security plans** for permanent bases of aviation resources. Aviation Base Security Plans shall be updated, reviewed, and approved annually. Forest Aviation Base Security Plans must be approved (signed) by the Forest Supervisor. Prior to approval, the Forest Aviation Officer (FAO), the Regional Aviation Officer (RAO), and the Regional Aviation Safety Manager (RASM) must review Forest Aviation Base Security Plans.

All Forest Aviation Plans must be reviewed by the RAO per policy.

All aviation plans must be reviewed and approved.

Forest Aviation Plans must be approved (signed) by the Forest Supervisor. Prior to approval, the Forest Aviation Officer, the Regional Aviation Officer, and the Regional Aviation Safety Manager must review Forest Aviation Plans.

All Forest Service aviation operations must be addressed in a written plan. Those operations not covered in FSM or FSH, the National, Regional, or Forest Aviation Plan must be addressed in a Project Aviation Safety Plan (PASP).

Project Aviation Safety Plans (PASP) must be reviewed by the FAO, RAO and RASM, depending on the level of complexity, and approved by the District Ranger for non-complex aviation projects, and by the Forest Supervisor for complex aviation operations.

Project planning should include the use of the **End-Product Exhibit matrix** (FSM 5711.21) to determine if a project should be managed as an end product contract or flight services contract. If it is determined that a project is going to be contracted as an End Product, a Project Aviation Plan shall not be completed.

Forest Supplement:

National Aviation Safety and Management Plan (NASMP)

The NASMP provides information regarding Forest Service aviation organization, responsibilities, administrative procedures, and policy and is intended to serve as an umbrella document that Regional and Forest Aviation Plans tier from. The Assistant Director, Aviation will maintain a National Aviation Safety and Management Plan ([FSM 5704.21](#)). The NASMP is approved by the Director, Fire and Aviation, annually.

Regional, Northeast Area or Station Aviation Management Plans (RAMP)

Each region, the Northeast Area (NA), and Stations shall publish a RAMP that implements national policy and describes protocols specific to each regional aviation program. The RAMP serves as an umbrella document for Forest Aviation Management Plans. The regional directors shall supplement and annually update the aviation management goals, objectives, programs and activities, and strategic direction at each organizational level ([FSM 5711.04b](#)). The RAMP is approved by Regional Foresters annually.

Regional and Northeast Area and Station Homeland Security Response Plan

Each Region, NA, and Station must develop a Homeland Security Response Plan that details the security actions that each Region, NA, and Station will implement, based upon the Homeland Security threat level. The Regional, NA, or Station Homeland Security Response Plan must be reviewed by the Fire and Aviation Management staff, HQ Washington Office ([FSH 5709.16, Chapter 60, 52.1](#)). The Regional, NA, and Station Homeland Security Response Plans are approved by the Regional Forester.

Regional and Northeast Area Aviation Safety Plan

The RASM has the responsibility to prepare the Regional Aviation Safety Plan ([FSM 5720.48d](#)). The Regional, NA Aviation Safety Plan is approved by the Regional Forester/ Director NA annually. Regional FHP unit aviation officers and Station Aviation Officers have the responsibility to draft FHP/Station Aviation Safety Plans that either tier to the RAMP or appear as an appendix within the RAMP.

Regional and Northeast Area Aviation Mishap Response Plan

Regional Foresters and/or Area Director have responsibility to ensure that every Forest Service unit that utilizes aircraft develops and annually updates, an aviation mishap response plan ([FSM 5720.48a](#)). The Regional and NA Aviation Mishap Response Plan is approved by the Regional Forester/ Director NA.

Forest and Station Aviation Management Plans (FAMP/ SAMP)

Forests and Stations are required to maintain and update unit aviation plans annually, which implement national and regional policy and establish local procedures and protocol. The Forest Service and Station Directors shall supplement and update annually the aviation management goals, objectives, programs and activities, and strategic direction at each organizational level ([FSM 5711.04b](#)). The FAMP / SAMP is approved by the appropriate Forest Supervisor/ Station Director annually.

Facility Homeland Security Response Plan

Each aviation facility must develop a Facility Homeland Security Response Plan that is specific to that aviation facility and details the security actions the facility will take for each Homeland Security threat level. The Facilities Homeland Security Response Plan is approved by the appropriate Forest Supervisor annually.

Forest and Station Aviation Mishap Response Plan

Forest Supervisors, Station Directors, district rangers, and other officials designated with line authority have responsibility to ensure that every Forest Service unit that utilizes aircraft develops and annually updates, an aviation mishap response plan ([FSM 5720.48a](#)).

Project Aviation Safety Plans (PASP)

A [PASP](#) is submitted independent of a Forest, NA, or Station Aviation Management Plan. For all non-emergency aviation projects, a PASP shall be developed and approved as required in the [FSM 5711.04](#) and [FSM 5711.1](#).

Regional Supplement: The Regional standardized PASP template that is in compliance with [FSM 5711.04](#) and [FSM 5711.1](#)

The process is for the FAO to submit a completed PASP to the RASM for review. The RASM will involve the Regional Aviation Staff as necessary for review and the signed PASP will be returned to the FAO. To ensure the PASP is properly reviewed the forest should submit PASP at least 14 days in advance of the proposed project date.

Mission Use of Aircraft (Operational) Plans

Mission Use of Aircraft (Operational) Plans shall be developed and updated annually by the Program Managers.

National Aviation Operations Plans will be approved by the Assistant Director, Aviation. Regional Aviation Operations Plans will be approved by RAOs. Forest/Unit Aviation Operations Plans will be approved by Forest Fire Management Officers or Fire Staff Officers.

Specific Operational Plans will be developed for national, regional or local permanent and temporary:

Airbase Operations

Helicopter operations (Exclusive Use)

- Helitack
- Rappel
- Tank/Bucket operations
- External Loads
- Night Air Operations
- Emergency Medical Short-haul

Smokejumper operations

Airtanker operations

- Very Large Airtanker
- Large Airtanker
- Scoopers
- Single Engine Airtankers (SEATs)

Aerial Supervision

Light Fixed-Wing operations

Law Enforcement & Investigation operations

Forest Health Protection (FHP)

Research

Natural Resource management and protection

These plans at a minimum should include:

- Authority
- Aircraft
- Aircraft Quantity
- Funding
- Contracts
- Sustainment
- Mission Requirements
- Facilities
- SMS
- Staffing

The Mission Use of Aircraft (Operational) Plans shall be approved by the appropriate line officer ([FSM 5711.04](#)).

Regional Supplement: Elements of the plans shall at a minimum include: organization, identification of typical missions, mission risk assessment and mitigation, training program, administrative procedures. The agency must use a risk management based approach for every task, looking for the hazards that may interfere with the safe and successful completion of the task at hand.

Forest Supplement:

3.4 Aircrew Orientation Briefing Package

All Forests that host permanent aviation bases shall create an Aircrew / Pilot Orientation Briefing Package. The Aircrew / Pilot Orientation Briefing Package serves as a source of information to provide visiting pilots, aircrews, and Incident Management Teams. Elements of the briefing package should include:

- Leader's intent
- Local frequencies and their use (to include map if available)
- Contacts, name title, phone (may include vendor information)
- Local sunrise/sunset charts
- Local airport information (to include a map)
- Local lodging information
- Local water sources/dip sites (name, latitude and longitude, ownership, hazards, elevation, contact information).
- Helispots (name, latitude and longitude, map or aerial photo)
- Map depicting MTRs and Special Use Airspace
- IA size-up card
- Local medical evacuation information (including nearest burn and trauma centers)
- Local hazards (map and description)
- Airport crash rescue procedures
- Map and description of jettison areas
- Local flight following procedures (AFF and/or radio contact)
- Aviation Operations Plan
- Special considerations

Regional Supplement: Regional direction is that every forest will have an aviation in-briefing package for visiting air resources and Incident Management Teams.

Forest Supplement:

3.5 Land Use Policy for Aviation Activities

The regulation of aviation activities on or over Forest Service managed lands is solely dependent on Land Management Plans (LMP) direction and any applicable [Federal Aviation Regulations \(14 CFR\)](#).

Temporary aviation operations on Forest Service lands may be restricted due to LMP direction. FAOs should coordinate with resource managers to identify areas of restriction when developing Operating Plans, Forest Aviation Management Plans, and [PASP](#). When identified by resource managers, FAOs should implement any invasive species control measures for aviation activities. FAOs also coordinate reporting of any fire chemical aerial application in or near waterways.

Regional Supplement: N/A

Forest Supplement:

3.6 Budget

Budgeting is completed on a three year cycle. Out year budget requests are submitted to Congress in the President's Budget in February, six months prior to the fiscal year for which they were submitted. The budget request is then vetted separately through the Department of Agriculture and [Office of Management and Budget \(OMB\)](#). Finally, it is then aggregated with all other agency and program requests into the President's Proposed Budget. The current year budget is finalized after congress passes an Appropriations Bill.

WO Branch Chief's shall develop OTT program/project budget proposals in early 2nd Quarter for submission to the BC, Aviation Business Operations upon request.

WO funds can only be approved for obligation ([FS 6500-224](#)) by the Assistant Director, Planning and Budget or their designee

Regional Supplement: N/A

Forest Supplement:

3.7 Contracting

Reference the FAM Aviation Contracting Guide for contracting process and procedures.

Aircraft are acquired through different types of contracts, Exclusive-Use (Ex-Use), Call-When-Needed (CWN), Indefinite Delivery/Indefinite Quantities (IDIQ), or End Product.

Exclusive-use contracts are generally used when the agency has a definite aircraft need for a specific period of time. Exclusive-use aircraft are guaranteed a minimum amount of use through a Mandatory Available Period (MAP). Daily availability is usually cheaper with exclusive-use contracts since the vendor is guaranteed a minimum amount of work.

Call-When-Needed contracts are a way for the agency to have ready access to a pool of aviation assets that meet a minimum standard, usually used for non-recurring missions or during periods of surge activity often related to wildland fire suppression.

The disadvantages are that the aircraft may not be available, the agency personnel and vendor personnel don't have the same opportunity for crew cohesion that an exclusive-use crew has, and that daily availability rates are generally higher since the vendor has no guaranteed work.

IDIQ and End Product contracts are often used for projects such as aerial application of pesticides or other types of work where: 1) the precise limits of the treatment area or quantity of material is uncertain or the contract may span multiple years (IDIQ) or 2) only the desired outcome is specified and/or specific area of treatment is known (End Product).

Refer to Section [3.10](#) for End Product Contracts.

Regional Supplement: The Regional Contracting Officer for aircraft in Region 8 is Gloria Sanders located in Atlanta (404) 347-4023.

Light fixed-wing and type III rotor-wing aircraft are contracted at the Regional level. The large fixed-wing and the heavy and medium rotor-wing aircraft are contracted under a National contract. All Regional and National contracted aircraft are provided contract administration services through the Contracting Officer located in Boise, Idaho.

Several aircraft are specifically contracted to be operated and managed by Fire and Aviation Management. The primary use of these aircraft is to support fire suppression activities. They are also available to support other Regional natural resource programs and activities.

Forest Supplement:

3.8 Aircraft Contract Start/Modification/Extension

Aircraft contract start dates and MAP are a coordinated decision between the National Office and Regions.

Regional Supplement: For Type III helicopters, Regions determine all contract information. Light fixed-wing aircraft are contracted through the Regions. The MAP is the required time frame that an aircraft must be available for government use.

Forest Supplement:

3.9 Contractor Performance

All CWN and exclusive-use contractor performance will be documented in accordance with [FSH 6309.11](#). Contract Officer Technical Representatives are required to complete contractor evaluations annually using the [Contractor Performance Assessment Reporting System \(CPARS\)](#). It should be noted that [SAFECOMs](#) are not used to determine contract awards.

Regional Supplement: The standard contract specifications are minimum safety and performance requirements for mission-specific equipment and operations. The Contracting Officer (CO) is the legal authority for administration of the contract. Every employee managing contractor-furnished aviation services is required to immediately notify the CO when a contractor or a contractor's employee engages

in unsafe acts or violates a requirement of the contract; the Regional aviation staff should also be notified reported on Form 5700-14.

Forest Supplement:

3.10 End Product Contracts

An end-product contract is intended to efficiently and effectively accomplish certain projects with no internal operational controls or specifications from the Forest Service aviation personnel. Certain aviation operations, such as aerial application of herbicides and insecticides, seed, fertilizer, prescribed burn projects, and some Burned Area Emergency Rehabilitation (BAER) projects may be administered in a more efficient and less expensive manner if contracted on an end-product basis, instead of through a Forest Service flight services contract. Refer to [FSM 5711.2](#) for more information on end-product contracts.

Regional Supplement: N/A

Forest Supplement:

3.11 Supplemental Fire Aircraft Acquisition

RESERVED

Regional Supplement: N/A

Forest Supplement:

3.12 Cooperator Aircraft

Cooperative aircraft operations and partnerships are encouraged in order to increase efficiency and enhance procedure standardization. The Northeastern Area, Regional Offices, and the States shall establish cooperative structures to increase capability and avoid duplication and conflicting procedures.

Use of state/local government, military, or other federal agency aircraft by Forest Service employees will require prior inspection and approval by Forest Service or OAS, usually in the form of a Cooperator Letter of Approval. Proposed use of these aircraft should be requested through the FAO to the RAO. Any employee wishing to ride on cooperator aircraft or work around a cooperator aircraft operation must consult their respective aviation manager.

Cooperator agreements for all aviation services provided to the Forest Service by other agencies and cooperators must specify levels of operational standards and safety comparable to those required of agency or contractor operations ([FSM 5710.35](#)).

When the Forest Service utilizes other governmental agency aircraft for non-fire missions, an agreement must be developed and approved to address at a minimum:

- Payment
- Operational Control
- Aircraft Management
- Performance Planning
- Mission Profile

- Landing Zones (When Applicable)
- Agreement Expiration Date
- [Public /Civil Aircraft Utilization Dispatch Work Sheet \(Public Law 103-411\)](#) (When Applicable)

Fire Missions:

- Create a resource order

Non-Fire Missions:

- Completed cost analysis
- Complete [Project Aviation Safety Plan \(PASP\)](#)

Military and cooperator aircraft approval shall meet the requirements in the [FSM 5713.43](#). National Guard pilots must meet the requirements identified in FSM 5712.34, 2.

See [Appendix 10.1](#) for Sample Letter of Cooperator Approval.

See [Appendix 10.2](#) for Cooperator Approval Guide.

Regional Supplement: N/A

Forest Supplement:

3.13 Aircraft Administrative Use and Reporting

Utilize the Forest Service [Administrative Use of Aircraft Desk Reference](#) to provide guidance and clarify the administrative use of aircraft.

The [USDA Property Management Regulation \(PMR\) 110-33](#) supplements Federal Management Regulation 102-33 Management of Government Aircraft. Both documents are agency wide policy for the use of Government aircraft to accomplish official business. In coordination with the [Office of Management and Budget Circular A-126](#), they restrict the operation of government aircraft to defined official purposes: restricting travel on such aircraft, requiring special review of such travel on government aircraft by senior officials or non-federal travelers under certain circumstances, and codifies policies for reimbursement for the use of government aircraft. The transportation of passengers or cargo on Forest Service aircraft shall be limited in accordance with these Regulations.

[FSH 6509.33 301 Federal Travel Regulation](#) requires that all employees have a travel authorization for any official travel. Each instance of administrative use of a Forest Service aircraft to transport passengers must be justified, documented, and approved, and as such, will comply with the requirements contained in [FSM 5711.3](#). All documents pertaining to these flights must be maintained by Dispatch and on file for two years.

Regional Supplement: Special requirements exist for travel that is not to meet mission requirements or required use travel by the following individuals and must be authorized in advance and in writing:

- Senior Federal officials;
- Members of families of such senior Federal officials; and
- Non-Federal travelers.

Such authorizations must be approved and signed on a trip-by-trip basis by the Department's General Counsel or his or her principal deputy to insure compliance with Regulations

Forest Supplement:

3.14 Dispatching

General

All flights (other than scheduled commercial air carrier flights) will be arranged by qualified aviation dispatchers and/or appropriate aviation manager and approved at the appropriate management level.

Administrative Use Flight Requests

Reference the Forest Service [Administrative Use of Aircraft Desk Reference](#).

Mission Flight Requests

All flight requests for mission flights shall follow the [National Mob Guide, Chapter 20](#).

Non-Incident Related Flight Requests

Follow local procedures.

Regional Supplement: Ordering

The aircraft ordering process can be found in the National Mob Guide, Chapter 20, 24.1.

In general, all CWN helicopter ordering will be coordinated through the Southern Area Coordination Center (SACC) while light fixed wing aircraft are ordered at the local dispatch center level. Airtankers ordered for incidents outside of a local dispatch area will be coordinated through SACC. There are some “neighborhood agreements” and exceptions in place throughout the Region. For specific information please see the Southern Region Area Mob Guide. (page 26 on link below)

http://gacc.nifc.gov/sacc/administrative/forms_references/SA_Mob_Guide/Chapter20.pdf

Ordering Flights: Official business only, coordinate through Dispatch. Air Tanker drops, Infrared

Forest Supplement:

3.15 Flight Use Reporting

Forest Service Aviation Business System (ABS) and Aviation Management Information Systems (AMIS)

Flight time, daily availability, and other authorized charges or deductions shall be recorded on a Flight Use Report in [Aviation Business System \(ABS\) \(FSM 5717.1\)](#). The data shall be entered and reviewed by the Government and the Contractor’s Representative.

Working Capital Fund (WCF) aircraft use is entered into the [Aviation Management Information System \(AMIS\)](#) or [Aviation Business System \(ABS\)](#) as applicable.

For Administrative Use flight reporting reference the Forest Service [Administrative Use of Aircraft Desk Reference](#).

Office of Aviation Services (OAS) Aviation Management Systems (AMS)

All Department of Interior (DOI) contracted aircraft will utilize the OAS Aviation Management System (AMS) web based flight reporting system. The AMS application will become available at <http://ams.nbc.gov>.

Regional Supplement: N/A

Forest Supplement:

3.16 Coding and Funding of Contract, Fleet, Severity Aircraft Availability

RESERVED

Regional Supplement: N/A

Forest Supplement:

3.17 Working Capital Fund (WCF) (Fleet Aircraft)

All agency-owned and operated WCF aircraft are FAA registered to USDA Forest Service, Boise Idaho. WCF aircraft are hosted by regions, but national optimal use is the primary goal to increase use and lower overall costs.

The purpose of the WCF is to provide a sustainable funding mechanism for the operation and replacement of agency owned aircraft that support fire suppression and non-fire aviation activities. WCF aircraft are subject to the same regulations regarding capitalization, de-capitalization, and depreciation as other WCF non-expendable personal property.

The Working Capital Fund Accounting Operations Handbook, [FSH 6509.11f](#) provides greater detail on how to accomplish day-to-day management, operations, and tasks, and what the WCF Aircraft User Guide will provide more aircraft specific information. Additionally, for more information regarding WCF fleet aircraft, refer to [FSM 5713.1](#).

Regional Supplement: N/A

Forest Supplement:

3.18 Federal Excess Personal Property (FEPP)

The FEPP program refers to Forest Service owned property that is on loan to State Foresters for the purpose of wildland and rural firefighting. Once acquired by the Forest Service, it is loaned to State and local cooperators for firefighting purposes. Approximately 70% of FEPP is sub-loaned to local fire departments. For policy guidance regarding FEPP, refer to [FSH 3109.12](#) (aviation specific [FSH 3109.12, Chapter 40](#)), the [FEPP Desk Guide, Chapter 40](#).

The RAO may:

- Review all State aviation operations plans for compliance with Forest Service and State excess property direction.
- Help establish minimum standards for pilot qualifications and maintenance for excess property aircraft.
- Coordinate and/or establish an approved source of parts for excess property aircraft, such as the Department of Defense (DoD).

- Review State security risk assessments and mitigation plans.
- Review all acquisition documents prior to transfer of aircraft.

Regional Supplement: N/A

Forest Supplement:

3.19 Program Reviews

Program reviews will be conducted jointly by Regions and the WO for regional and national office programs. The Aviation Management Review and Quality Assurance Guide and [FSM 1410](#) will be used for these reviews.

Regional Supplement: N/A

Forest Supplement:

3.20 New Project/Program/Issue Requests

A project/program/issue may include the following examples:

- New or changed equipment, e.g., aircraft, parachute, etc.
- New contractor contract change, e.g., LFS Helicopter, etc.
- New agreement or MOUs.
- New process or changed process, e.g., rappel standardization, pilot standardization, etc.
- Deviation from standards, e.g., LEI exemption, Wire Strike Protection System, etc.
- New or changed policy, e.g., doctrinal policy changes, 100 hr, turbine single engine, etc.
- New or changed procedure, e.g., rappel procedures.

The proposal is submitted to the WO Aviation Division through any of the WO Aviation Branch Chiefs or Assistant Director, Aviation. The proposal should be formatted in the Project/Program/Issue Proposal template (10.4).

The Aviation Division will socialize the proposal within the division and to the RAOs and RASMs for a minimum of 30 days with a due date for discussion.

The proponent may be asked to brief the NAT. The NAT will:

- Discuss, ask questions and come to a decision.
- The decision may be to develop or gather more information, bring the proposal back to a later meeting for a Go/No Go decision or make a Go/ No Go decision.
- A No Go decision will end the proposal.
- Notify the proponent of the decision.

The proposal is briefed by NAT staff or the proponent to the Regional Aviation Officer and Regional Aviation Safety Manager Council. The councils will:

- Discuss, ask questions and come to a decision.
- The decision may be to develop or gather more information, bring the proposal back to a later meeting for a Go/No Go decision or make a Go/ No Go decision.

- A No Go decision will end the proposal.
- Notify the proponent of the decision.
- Depending on the scope a project team may be formed by the NAT, RAO and RASMs at this step.

Depending on the scope, the proposal may be briefed to the WO Director, Fire and Aviation Management (FAM) and the Regional Fire Directors (RFD). The Director FAM and RFDs may:

- Discuss, ask questions and come to a decision.
- The decision may be to develop or gather more information, bring the proposal back to a later meeting for a Go/No Go decision or make a Go/ No Go decision.
- A No Go decision will end the proposal.
- Go decision will include the NAT, RAOs, and RASMs forming a Project Team.
- Notify the proponent of the decision.

If a Project Team is formed it may be chartered by the Director FAM depending on the scope of the proposal. The Project Team will include Subject Matter Experts (SMEs) necessary to complete a Project Implementation Plan. SMEs may include:

- Aviation Operations- WO and/or Regional
- Aviation Safety- WO and/or Regional
- Airworthiness- WO and/or Regional
- WO Pilot Standardization
- WO Aviation Business
- FAM Budget
- AQM
- Fire Operations- WO and/or Regional
- Project proponent

A Project Implementation Plan outlining the steps to plan and implement a project may include the following components:

- Business Case- if required
- Requirements Analysis- if required
- Process Change Plan- if required
- Acquisition Plan- if required.
- Communication strategy- if necessary
- Official documentation- required.
- Action Plan- required

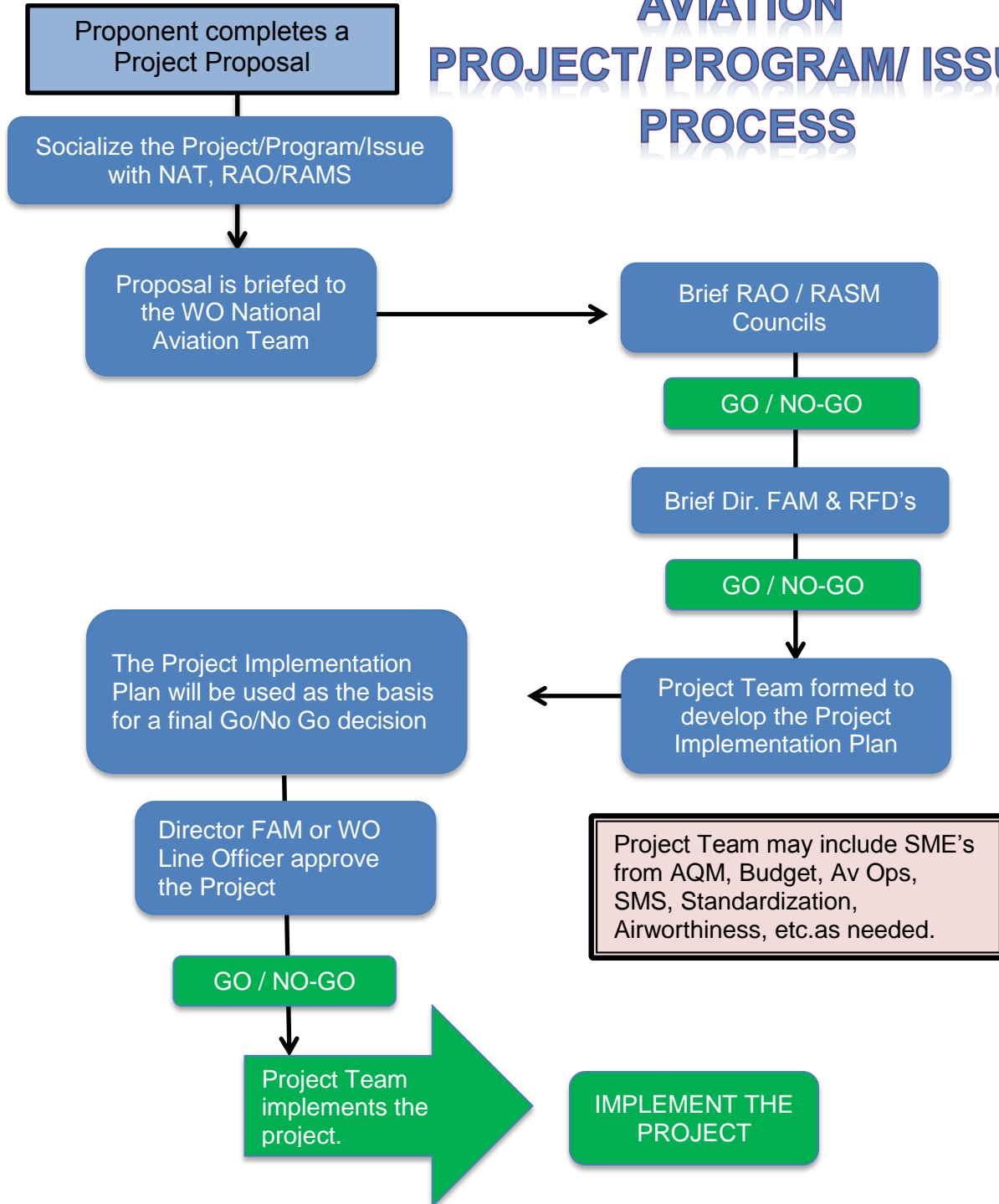
- Quality Assurance Plan- required
- Risk Assessment (safety impact analysis, business, and financial)- a safety impact analysis is required for any aviation operations related project.

The Project will require decision approval from the Director, FAM at a minimum. Depending on the scope it may require WO Line Officer approval – Chief or Deputy Chief prior to implementation and operations.

- The decision may be a Go/ No Go decision.
- A No Go decision will end the proposal.

Implement Project as defined by the Project Implementation Plan.

AVIATION PROJECT/ PROGRAM/ ISSUE PROCESS



4.0 Aviation Safety Management Systems

4.1 General

Safety is the state in which the possibility of harm to persons or property damage is reduced to, and maintained at or below, an acceptable level through continuing processes of hazard identification and risk management. *“It (safety) must be a core value of our culture, ingrained in the character of every employee. As an agency, we must endeavor to place the safety of our co-workers and ourselves above all else. This obligation requires integrity, trust, and leadership: the integrity of every employee to adhere to Agency standards, the trust in our leaders to place safety as the first priority, and leadership at all levels to provide a culture that encourages employees to communicate unsafe conditions, policies, or acts that could lead to accidents without fear of reprisal”* (Chief’s Safety Policy, August 27, 2009). This commitment to safety will be reflected as doctrine within aviation safety management. The adoption of [\(SMS\)](#) continues the application of Forest Service Doctrine. SMS is not a safety program; rather it is a system which aligns, assesses, and organizes an organization’s existing safety processes around the concept of system safety. SMS incorporates a proactive approach using hazard identification and risk management to achieve accident prevention.

Regional Supplement: The goal of the Aviation Safety and Training Program is to eliminate aviation accident occurrences.

Objectives

The objectives of the safety program are:

- a. To minimize human exposure to hazards through implementation of effective risk management techniques.
- b. To minimize loss of life, suffering from injury or permanent impairment, and the anguish and suffering of family and friends.
- c. To minimize the government costs that result from accidents.

Safety Awareness

Safety awareness is a mental attitude fostered by proper management and supervisory procedures. FS management must be a partner in aviation safety to ensure that the standards and procedures established are understood and adhered to. This means that where operational decisions must be made, they are made prudently, with safety given priority over mission accomplishment. This requires individuals to know how to do a job or mission properly, applicable FS policies, approved operating procedures, and how to follow them consistently. With a good safety awareness attitude and well-trained individuals, most aviation accidents can be prevented.

Aviation safety cannot be legislated or mandated; it can only be successfully accomplished by fostering and inspiring an attitude in which conducting aviation operations safely is the foremost priority. An undeviating and persistent commitment to professional conduct by everyone involved in the aviation program is paramount to achieving safety awareness accident prevention and successful risk management.

All people involved in the aviation program play a key role in the successful (safe) outcome of aviation activities; however, management is responsible for achieving safety goals. This can only be accomplished through awareness and uncompromising support by management.

Organization for Accident Prevention

The fundamental reason for establishing the majority of Forest Service aviation positions in the past was for administration of aviation safety within the Forest Service. All personnel with aviation responsibilities are expected to actively participate in the execution of a successful aviation safety program.

The Region has designed a professional aviation organization and requires the forests to design a forest aviation organization to emphasize safety awareness. The Regional organization is staffed with technical and managerial specialists in various aviation fields that operate in their respective areas to provide continuous observations, implement accident prevention measures, monitor compliance with established procedures, and advocate a cooperative safety-oriented attitude in the execution of aviation operations. Accident prevention activities include all segments of aviation and must be closely affiliated with other Forest Service functions.

Forest Supplement:

4.2 Safety Management Systems (SMS)

SMS offers a complimentary solution based on structuring the existing rules and continuous review of the efficacy of those rules. Thus, the system ensures that guidance and regulation meet the original intent and that they have no unforeseen adverse side effects. SMS can be considered as functioning like a filing system, which structures the organization's existing safety initiatives and provides a review process for how well those initiatives function. SMS is divided into four components: Policy, Risk Management, Assurance, and Promotion.

Regional Supplement: N/A

Forest Supplement:

4.3 Policy

SMS is a critical element of management responsibility in determining the agency's safety policy and SMS also defines how the agency intends to manage safety as an organizational core function.

- Policy guides aviation safety doctrine, philosophy, principles and practices.
- Policy provides framework for aviation plans ([Refer to 3.3 Aviation Plans](#)).
- Policy assists in the development of local standard operating procedures.
- Policy will foster and promote doctrinal principles and safety management systems within the Regions.

Regional Supplement: N/A

Forest Supplement:

4.4 Risk Management

To provide structure to control risk in operations, a formal system of hazard identification and safety risk management is essential. The risk management process is designed to manage risk to acceptable levels by the identification, assessment, and prioritization of risks followed by coordinated application of resources to minimize, monitor, and control the probability and/or impact of undesirable events.

The agency:

- Will define a process for risk acceptance that defines acceptable and unacceptable levels of safety risk; establishes descriptions for severity levels, and likelihood levels.
- Will define specific levels of management that can make safety risk acceptance decisions.
- Will define acceptable risk for hazards that will exist in the short-term while safety risk control/mitigation plans are developed and executed.
- Will establish feedback loops between assurance functions to evaluate the effectiveness of safety risk controls.

There are necessary steps in the Risk Management Process.

- Define Objectives (i.e., Strategic program analysis, change management, accident action plan, other).
- System Descriptions: Identify each system-component that contributes to the mission.

Risk assessment is a step in the risk management process. Risk assessment is the determination of hazards associated with a situation or activity.

There are necessary steps in the risk assessment process as outlined in the [FS Aviation Safety Management System Guide](#):

1. Define Objectives (i.e., System and task analysis).
2. System Descriptions: Identify each system – component that contributes to the mission. Consider change management in systems.
3. Hazard Identification: Brainstorm all possible failures, threats, and danger points.
4. Risk Analysis: Disassemble the hazard to identify outcomes, impacts of a hazardous event, and degree of exposure to risk. (Ask the question: If this hazard exists, then what happens?)
5. Risk Assessment: Evaluate the combined effects of the potential for injury, damage, fatality, etc. based upon severity and likelihood of an event occurring.
6. Decision Making: Determine mitigations needed, conduct cost/benefit analysis, develop an action plan, and implement controls. (This is risk management).
7. Validation of Control: Monitor controls and supervise operations to determine if controls are effective.

Risk assessment can be divided into three levels:

- Time Critical. This method of risk management is an “on-the-run” mental or verbal review of the situation using the Operational Risk Management (ORM) process without necessarily recording the information. Many of the skills used in this context are applicable to normal mission where deliberate risk management has occurred and crews must manage risk in a dynamic situation. Note that “time critical” does not mean “hasty” or “uninformed.”
- Deliberate. This ORM method is used with adequate planning time and may involve more than one system at its source. It involves a systems identification, hazard identification, risk assessment/analysis, consideration of control options and risk decision making, implementation of

controls, and supervision. This method will involve documentation of the process and actions. Examples of the tools in use for ORM are project aviation safety plans (PASP) and job hazard analysis (JHA).

- Strategic/In-Depth. Strategic Risk Management (SRM) is conducted at the highest levels of the organization and is typically applied to “systems of systems” type complexity, and requires more sophisticated techniques and professional reviews. A system or task description should completely explain the interactions among the software, hardware, environment, and liveware (e.g. SHEL model) that make up the system in sufficient detail to identify hazards and perform risk analysis.

This method should be used in instances where an entire program-wide assessment is deemed necessary; new technology or a change in process is being proposed; or when risks appear consistently high in a specific functional area. The strategic process produces a permanent record of findings and decisions used for long term planning, organizational decision-making and as authoritative training resources.

Note: The SRM process shall not preclude employees or contractors from taking interim immediate action to eliminate or mitigate existing safety risk when and where it is recognized that urgent action is required.

Regional Supplement: N/A

Forest Supplement:

4.5 Assurance

The safety assurance component involves processes for quality control, mishap investigation, and program reviews.

- Provide aviation safety oversight and review through active field presence and encourage a reporting culture between management and aviation.
- Monitor established standards and procedures and make corrections as needed.
- Monitor accident and incident trends, and implement appropriate prevention action.
- Report accidents and incidents with potential in accordance with the local emergency response plan.
- Conduct accident and incident investigations.
- Provide guidance, coordination, and monitoring of safety evaluations conducted by the Regional aviation staff and Forest/Unit Aviation Officers.
- Provide assistance in aviation activities to ensure best practices and procedures are understood.
- Promote and provide corrective action on [SAFECON](#) reports, develop trend analysis and communicate lessons learned.
- Review aviation accident and incident reports and follow-up on action items.

QA techniques can be used to provide a structured process for achieving objectives. Forest Service efforts to date have concentrated on the development and implementation of comprehensive doctrine/policy revision, risk management processes, SMS promotion and training.

All effort should be made to focus corrective action as specifically as possible.

Regional Supplement: Safety evaluations are a means of determining compliance with safety standards and to detect unsafe conditions in order to prevent an incident, accident, loss of life, personal injury, or property damage.

Formal evaluations are accomplished using a team of Forest Service, interagency, and/or industry aviation and management officials to conduct surveys, audits, and reviews. The evaluation team is responsible for providing the operating unit and its managing organization with a written report of its findings and recommendations. The managing organization of the operating unit is then responsible for developing and implementing an action plan that addresses the findings and recommendations contained in the report. Forest Aviation Activities Safety Reviews will be conducted to provide safety assurance on a four/five year schedule for each forest, with up to three forests reviewed each year. These evaluations should be conducted annually at each established aviation base. Informal evaluations are conducted on a more frequent basis and are performed by aviation specialists during field assistance visits to Forests, aviation bases, incident bases, and projects. In all cases, follow-up includes all subsequent activity needed to see that corrective actions are taken.

Helicopter and Airtanker Base Reviews. Base reviews will be conducted by the Regional Office in accordance with the Interagency Helicopter Operations Guide and Interagency Airtanker Base Operation Guide. To achieve the maximum degree of safety and efficiency, these reviews will place a special emphasis on trend monitoring and then applying these results in proficiency drills at each review. All finding will be reported to the Managing Line Officer, Forest Aviation Officer, Regional Aviation Safety Officer and the Regional Fire Director.

4.5.1 Aviation Safety and Technical Assistance Team (ASTAT)

The Forest Service provides representation on ASTAT to support aviation resources and personnel operating in the field during periods of increased aviation operations. The team's purpose is to assist and review helicopter and / or fixed-wing operations on ongoing wildland fires and to provide safety assurance through communication from the field to Fire and Aviation Management leadership. When conducting reviews, an ASTAT team should follow direction as stated in:

- [Forest Service Aviation Safety Management System Guide](#)
- [FSM 1410](#)
- [Interagency Standards for Fire and Fire Aviation](#)

Regional Supplement: The purpose of Aviation Safety Technical Assistance Teams (ASTAT) is to expand the oversight and influence of the RASM across multiple incident and project locations. Operationally, ASTATs work to enhance safety, improve operational efficiency and effectiveness, and are able to provide on-site technical assistance. The Region will establish an ASTAT when aviation activity suggests doing so would be beneficial. All efforts will be made to coordinate with FAOs and aviation positions on IMTs about ASTAT activities. The RASM has responsibility to order, configure, and manage ASTATs.

Forest Supplement:

4.5.2 Aviation Safety Communiqué - SAFECOM

[SAFECOM](#)s fulfill the Aviation Mishap Information System (AMIS) requirements for aviation mishap reporting for the Forest Service. The [SAFECOM](#) reports any condition, observance, act, maintenance problem, or circumstance which has the potential to cause an aviation-related mishap ([FSM 5720.46](#)). The [SAFECOM](#) system is not intended for initiating punitive actions. Submitting a [SAFECOM](#) is not a substitute for “on-the-spot” correction(s) to a safety concern. It is a tool used to identify, document, track and correct safety related issues. This form is located on the [SAFECOM](#) web page, [Interagency SAFECOM System](#). All personnel involved in aviation activities are encouraged to submit [SAFECOM](#)s when they feel such action is warranted.

Regional Supplement: The causes of most accidents reveal failures to observe controls already established through previous risk management efforts and accident experiences. In addition, some accident causal factors reveal hazards not previously addressed adequately. It is imperative that these hazards or hazardous practices be corrected or they are sure to be repeated over and over again.

An aviation hazard/incident is any event or situation associated with the operation of an aircraft that, if not corrected, could result in an accident. The individual or organization with first-hand knowledge of the circumstances pertinent to the hazard/incident accomplishes the most efficient and direct detection of hazards/incidents.

Each individual and each organizational unit has an obligation to others in aviation to share hazard, mishap, and causal information. Each unit’s aviation plan contains provisions for encouraging the reporting of such information by individuals. The information is documented and processed for system-wide distribution using the SAFECOM (Form 5700-14) process.

Reporting Procedures.

1. The individual involved or with first-hand knowledge of a hazard/incident should complete a SAFECOM form and submit it to the Regional Aviation Safety Manager (RASM) as soon as possible. The preferred and easiest method for doing this is by completing and submitting the SAFECOM through the Internet, although any method of getting the information into the system is acceptable. The Internet site is at www.safecom.gov.
2. The SAFECOM system automatically assigns a tracking number to each SAFECOM entered into the database.
3. The system simultaneously sends a message to the RASM and to the Forest Aviation Officer of the unit with operational control of the aircraft stating that a SAFECOM has been submitted.
4. The RASM coordinates any follow-up required, and posts the SAFECOM on the “public access” side of the SAFECOM database on the Internet.
5. Each aviation base should post the reports in an accessible location for all interested persons to see.

Actions to correct hazards/incidents are essentially the same, whether identified and reported before or after an accident. The normal accomplishment of remedial action is a function of management personnel. Aviation safety programs should contain provisions for recommending specific remedial action to be taken by the organization and its employees to correct hazards/incidents.

The persistent monitoring of corrective actions has proven necessary to ensure that hazards are not left uncorrected and threaten future aviation activities with damage and/or injury. Regional and Forest Aviation Staff are responsible for monitoring corrective action.

Forest Supplement:

4.5.3 Aircraft Accident Investigation Process

The [National Transportation Safety Board \(NTSB\)](#) is responsible for investigating all Forest Service aviation accidents. The Forest Service investigation team additionally conducts a review of Forest Service management and policy issues concurrent with the [NTSB](#) investigation. The [Coordinated Response Protocol \(CRP\)](#) provides guidance for methodology. On completion of the learning review, the draft report will be reviewed by an Learning Review Board (LRB). The chairperson of the LRB forwards the Final Review Report, the Draft Safety Action Plan, and transmittal letter to the Chief's office for approval.

4.5.4 Forest Service Strategic Risk Assessment Close-Out Process

Once the Strategic Risk Assessment has been completed, and the Assistant Director, Aviation and Assistant Director, Risk Management will deliver the final product to the Director, Fire and Aviation Management. The Director will provide direction for the risk assessment report to be reviewed. The Strategic Risk Assessment Close-out Working Group (SRACOW) will establish a Subject Matter Expert (SME) group of no more than five SMEs. The SME group will be given direction, parameters and timelines to review the report; identify mitigations that are one time effort and those that are on-going; assess individual mitigation's effectiveness and implementation cost and to develop a Quality Assurance (QA) checklist for long-range monitoring. The SME group will provide the SRACOW with these products in the established timelines. The SRACOW will review and either accepts the SME products or a back and forth coordination will begin to develop acceptable products. Once the SRACOW agrees on an acceptable QA checklist, the SRACOW will provide the Assistant Director, Aviation and Assistant Director, Risk Management with documentation on the completion of the project. The Assistant Directors will deliver the final product to the Director of Fire and Aviation for Deputy Chief, State and Private Forestry signature. Strategic Risk Assessments should be closed out and formally completed no later than one year from the date of tasking to the SRACOW. A bulleted representation of the process is below:

- Aviation Strategic Risk Assessment completed and assigned to the SRACOW with the expectation of being formally closed out within one year. (Director FAM)
- Develop SME Group and provide clear direction of assigned tasks. (SRACOW)
 - Identify on-going and one time mitigations and assess their viability. (SME)
 - Develop QA Checklist. (SME)
 - Provide products back to SRACOW. (SME)

- Review, validate and either accept or return SME products. (SRACOW)
 - Pass Back Process if needed.
- Once acceptable products are developed, formally complete and close out the risk assessment through documentation to the Assistant Director, Aviation and the Assistant Director, Risk Management. (SRACOW)

4.5.5 Project Aviation Safety Planning (PASP)

Accident prevention is paramount when planning individual aviation operations. PASPs are not required for incident aviation operations or point to point / administrative use flights.

Prior to commencing non-emergency operations involving the use of aircraft, the Regional Directors, Area Director, Forest Supervisors, and Station Directors shall develop and document a Project Aviation Plan including a PASP that will be reviewed by the RAO ([FSM 5711.04b](#)). An aviation safety manager is also recommended to be included in the review process. An appropriate line officer shall approve all Aviation Plans per direction in [FSM 5711.04](#).

Regional Supplement: The Regional PASP template can be found in Appendix 10.12.

Forest Supplement:

4.6 Promotion

The organization must promote safety as a core value with practices that support a positive safety culture. Safety promotion can be accomplished through safety awards, education, and communication.

- Training
- Communication
- [Lessons Learned Website](#)
- Reporting and Feedback
- Safety and Mishap Information
- Safety Awards

The desired positive Safety Culture is informed, flexible, learning, just and is a reporting culture that captures employee operational knowledge and experience. The end result of this cultural shift is to achieve the status of a High Reliability Organization (HRO).

Regional Supplement: The region understands that in order to accomplish “zero accidents”, we must maintain, provide and support a robust aviation training program. The region will strive to learn from previous accidents and mishaps by incorporating modern and advance aviation training into the regions aviation training program.

4.6.1 Human Factors

Human error is the single area, which if possible to eliminate or reduce, would provide the greatest benefit in accident prevention. Human behavior is so complex that it is unrealistic to think that human error can be eliminated. When fully implemented, SMS provides and promotes a positive Safety Culture which can reduce the impact of human error.

4.6.2 Aviation Safety Awards Program

Aviation Safety Awards are a positive part of the aviation program and are provided to all levels with the Forest Service organization. National awards are given following the guidelines in [FSM 5724](#) for pilots and employees.

Regional Supplement: **"SAFE ATTITUDE"** is the interagency safety awareness campaign designed to help people understand that "attitude is everything" in aviation. AIRWARDS reinforce safety as a core value and encourage prevention of aviation mishaps. Everyone is eligible to nominate or be nominated for an AIRWARD. Nominations are submitted through a [SAFECOM](#) or by contacting the Regional Aviation Safety Manager.

Airwards are given to people working in and around aviation in recognition of their professional performance during a hazardous aviation event or significant contribution to aviation mishap prevention. AIRWARD recipients are featured in AIRWARD News which shares stories on those who are doing things right and sparking new ideas for different operations and programs.

Forest Supplement:

4.7 National Fire and Aviation Operations Alert System RESERVED

5.0 Aviation Operations

5.1 General

It is the responsibility of each employee, cooperator, and contractor to conduct aviation operations that have been approved by management, planned properly, utilizes the correct equipment, use qualified personnel, and insure that the risk has been mitigated to an acceptable level.

Forest Service employees are often challenged by working in very high-risk and dynamic environments that are not always predictable. This responsibility can only be realized through participation of every employee.

Safety is the first priority and leadership at all levels must foster a culture that encourages employees to communicate unsafe conditions, policies, or acts that could lead to accidents without fear of reprisal.

The four components of SMS (Policy, Risk Management, Assurance, and Promotion) are critical to the success of safe operations.

Regional Supplement: **General**

Forest Service aviation activities include both "civil" and "public" operations. Civil aircraft operations shall comply with applicable sections of 14 CFR as well as Forest Service (FS) policy. Public aircraft operations shall comply with applicable sections of 14 CFR (control of air traffic, use of airspace, and aircraft registration) as well as FS policy. Life-threatening emergencies may require deviation from policy. The pilot shall take appropriate action to ensure safety of flight. These situations shall be reported by the pilot and documented on Aviation Safety Communiqué (SafeCom Form FS-5700-14). However, FS employees should attempt to follow FS aviation policies to the maximum extent practical. Aviation operations shall comply with the Federal Aviation Regulations (FAR), Forest Service Health and Safety Code, Forest Service Manual (FSM), and Forest Service Handbooks (FSH) as supplemented by the Region and Forest. The following activities, procedures, and services shall be guided by the stated policy. When a more detailed explanation is required the appropriate reference is cited.

Forest Supplement:

5.2 Operational Guides and Handbook

5.2.1 Manuals

Aeronautical Information Manual (AIM): Issued by the Federal Aviation Administration; copies are available from the Government Printing Office and commercial sources. Also available at: http://www.faa.gov/air_traffic/publications/atpubs/aim/index.htm.

Airplane Flight Manual (AFM): The original equipment manufacturer's manual is available in each aircraft operated by the agency.

FSM 5700 Aviation Management: Also available at: http://www.fs.fed.us/cgi-bin/Directives/get_dirs/fsm?5700

5.2.2 Handbooks

FSH 5309.11 – Law Enforcement Handbook, Chapter 50 – Actions and Procedures: Also available at: https://fs.usda.gov/FSI_Directives/5309.11_50.doc.

FSH 5709.16 Aviation Management and Operations Handbook: Also available at:
http://www.fs.fed.us/cgi-bin/Directives/get_dirs/fsh?5709.16

FSH 6709.11 Health and Safety Code Handbook: Also available at:
http://www.fs.fed.us/cgi-bin/Directives/get_dirs/fsh?6709.11.

Military Use Handbook: Also available at:
http://www.nifc.gov/nicc/predictive/intelligence/military/Military_Use_Handbook_2006_2.pdf.

Pilot's Operating Handbook (POH): Also known as the FAA Approved Airplane Flight Manual; available in each aircraft operated by the agency.

5.2.3 Forest Service Guides

The most recent Forest Service approved version of the following guides supersedes all previous versions. Forest Service National Guides shall be approved in writing by the Deputy Chief, State & Private Forestry.

Accident Investigation Guide: Also available at:
<http://www.fs.fed.us/t-d/pubs/pdfpubs/pdf05672806/pdf05672806dpi72pt01.pdf>.

Aircraft Inspection Guide: Available from the Washington Office Detached Unit, Boise agency aviation staff. Also available at:
http://www.fs.fed.us/fire/aviation/av_library/AIG_2008.pdf

Air Card Guide:

Aviation Safety Management System Guide: Also available at:
http://www.fs.fed.us/fire/av_safety/policy/FS%20SMS%20Guide%20FINAL%20Approved.pdf

Federal Excess Personal Property (FEPP) Desk Reference Guide

Fire and Aviation Qualifications Guide: Also available at:
<http://www.fs.fed.us/fire/publications/fsfaqq/fsfaqq.pdf>.

Helicopter Flight Evaluation Guide (HFEg): Available from the Washington Office Detached Unit, Boise agency aviation staff.

Management Review and Quality Assurance Guide:

National Law Enforcement and Investigations (LEI) Short-Haul and Hoist (S-H/H) Guide

National Rappel Operations Guide:

Professional Helicopter Pilot Guide: Also available at:
http://www.fs.fed.us/fire/aviation/av_library/professional_helic_pilot_guide.pdf

Security Standard Requirements Guide: Available from aviation management staff, Washington Office, 1400 Independence Avenue SW, Washington, DC 20250.

Special Mission Airworthiness Assurance Guide: Also available at:

http://www.fs.fed.us/fire/aviation/av_library/FS%20Special%20Mission%20Airworthiness%20Assurance%20Guide_Revision1_12_7_2011.pdf.

WCF Aircraft User Guide: Also available at:

http://www.fs.fed.us/fire/aviation/av_library/Final_WCF_User_Guide_June_2010.pdf

Forest Service National Rappel Operations Guide: Also available at:

5.2.4 Forest Service Aviation Operations Plans

The most recent Forest Service approved version of the following operational plans supersedes all previous versions.

- Emergency Medical Short-Haul Operations Plan
- Modular Airborne Firefighting System (MAFFS) Operating Plan
- National Night Air Operations Plan
- Unmanned Aircraft System (UAS) Operating Plan
- Water Scooper Aircraft Operating Plan

5.2.5 Interagency Aviation Operational Guides

The most recent Forest Service approved version of the following guides supersedes all previous versions. Interagency Guides utilized by the Forest Service shall be approved in writing by the Deputy Chief, State & Private Forestry.

Cooperator Aircraft and Pilot Approval Guide for Interagency Fire

Interagency Aerial Ignition Guide (IAIG): Order No. Product Management System (PMS) 501. Also available at: <http://www.nwcg.gov/pms/pubs/pms501.pdf>.

Interagency Aerial Supervision Guide (IASG): Only the 2011 version of the IASG is approved for Forest Service use.

Interagency Airplane Pilot Practical Test Standards

Interagency Airspace Coordination Guide (IACG): Also available at:

<http://www.fs.fed.us/r6/fire/aviation/airspace/web/guide/index.html>.

Interagency Airtanker Base Operations Guide (IABOG): Order No. National Fire Equipment System (NFES) 2271. Also available at:

<http://www.nwcg.gov/pms/pubs/pms508.pdf>.

Interagency Aviation Life Support Equipment Guide

Interagency Aviation Mishap Response Guide and Checklist: Order No. National Fire Equipment System (NFES) 2659.

Interagency Aviation Training Guide (IAT): Also available at:
https://www.iat.gov/docs/IAT_Guide_2012.pdf.

Interagency Aviation Transport of Hazardous Materials Guide: Order No. National Fire Equipment System (NFES) 1068. Also available at:
[http://www.fs.fed.us/fire/aviation/av_library/2010%20Mishap%20Response%20Guide%20\(web\).pdf](http://www.fs.fed.us/fire/aviation/av_library/2010%20Mishap%20Response%20Guide%20(web).pdf).

Interagency Helicopter Operations Guide (IHOG): Order No. National Fire Equipment System (NFES) 1885. Also available at:
http://www.nifc.gov/PUBLICATIONS/ihog/2009_IHOG.pdf.

Interagency Helicopter Pilot Practical Test Standards

Interagency Helicopter Rappel Guide (IHRG): Available from the Washington Office Detached Unit, Boise agency aviation staff. Also available at:
http://www.nifc.gov/PUBLICATIONS/ihrg/Interagency_Helicopter_Rappel_Guide_2011.pdf.

Interagency Single-Engine Airtanker Operations Guide (ISOG): Order No. PMS 506. Also available at:
http://www.nifc.gov/PUBLICATIONS/ihrg/Interagency_Helicopter_Rappel_Guide_2011.pdf.

Interagency Smokejumper Operations Guide (ISMOG): Available from the Washington Office Detached Unit, Boise agency aviation staff. Also available at:
http://www.fs.fed.us/fire/aviation/av_library/ismog/ismog-fs.pdf.

Interagency Smokejumper Pilots Operations Guide (ISPOG): Available from the Washington Office Detached Unit, Boise agency aviation staff. Also available at:
http://www.fs.fed.us/fire/aviation/av_library/2008ISPOG%5B1%5D.pdf.

Interagency Standards for Fire and Aviation Operations (annual revision): Also available at:
http://www.nifc.gov/policies/pol_ref_redbook_2012.html.

NASF Cooperators Aviation Standards for Interagency Fire: Also available at:
http://www.fs.fed.us/fire/aviation/av_library/COOP%20NASF%20Standards.pdf.

National Interagency Mobilization Guide (annual revision): Also available at:
<http://www.nifc.gov/nicc/mobguide/index.html>.

5.2.6 Other References

Administrative Use of Aircraft Desk Reference

Aviation Risk Management Workbook: Also available at:
http://www.fs.fed.us/fire/av_safety/risk_management/ARMW%20Individual%20Files/ARM_2011W.pdf.

Foundational Doctrine Fire and Aviation Rotor and Wing January 2006: Also available at:
http://fsweb.wo.fs.fed.us/fire/fam/aviation/foundational_doctrine_fam_2006.pdf

Interagency Airtanker Base Directory: Available from the Washington Office Detached Unit, Boise Great Basin Cache, as National Fire Equipment System (NFES) Order Number 002537.

National Aviation Safety and Management Plan: Also available at:

http://www.fs.fed.us/fire/aviation/av_library/2012%20National%20Aviation%20Safety%20and%20Management%20Plan%20Final.pdf

Regional Supplement: Regional Aviation Operational Guides:

SACC Mobilization Guide: http://gacc.nifc.gov/sacc/forms_references.php

Forest Supplement:

5.3 Public/Civil Aircraft Operations

Forest Service aviation activities include both “civil” and “public” operations. Civil aircraft operations shall comply with [FSM 5703.32](#). Public aircraft operations shall comply with [FSM 5703.31](#).

Civil Aircraft

All Forest Service aircraft operations are civil unless specifically designated public. All aircraft other than public aircraft are considered civil aircraft ([FAR1.1](#)).

Public Aircraft

Public aircraft operations shall be the exception not the rule. The definition for Public Aircraft can be found in the [FSM 5705](#). The Forest Service will comply with all **14 Code of Federal Regulations (14 CFR) Federal Aviation Regulations** in the operation and maintenance of public aircraft with the few exceptions outlined in [FSM 5714](#).

Regional Supplement: N/A

Forest Supplement:

5.4 Employees on Unapproved Aircraft

All agency employees will comply with Forest Service aviation policies when performing agency employment-related duties on board any organization’s aircraft and/or aircraft operated under any other organization’s operational control. Employees shall be mindful of policy and the appropriate approval level for any deviation from policy. These policies include, but are not limited to: approved aircraft and pilot (carding or letter of approval), PASP, flight following, PPE, and appropriate management.

Regional Supplement: N/A

Forest Supplement:

5.5 Emergency Exception to Policy

Federal employees who are involved in an event in which there clearly exists an imminent threat to human life, and there is insufficient time to utilize approved methods, may deviate from policy to the extent necessary to preserve life.

The following provisions and follow-up actions apply:

- Personnel involved in the decision making associated with deviating from policy must weigh the risks versus benefit, must have an adequate understanding and knowledge of the mission risk, or contact an individual that does if practical.
- Any deviations shall be documented on a [SAFECOM](#).
- Requires Line Officer (District Ranger, Forest Supervisor, etc.) to authorize each flight. Refer to [FSM 5713.53](#).

Regional Supplement: N/A

Forest Supplement:

5.6 Flight Planning

Point-to-Point

Point-to-Point flights will be tracked by either an FAA – VFR (Visual Flight Rules), IFR (Instrument Flight Rules) Flight Plan, or agency flight plan. Minimally, there must be notification to Dispatch Centers upon departure and arrival.

FAA Flight Plans

FAA Flight Plans are filed by the pilot, opened in flight upon departure, and closed by the pilot with FAA Air Traffic Control (ATC) or Flight Service upon arrival.

Agency Flight Plans

Agency flight plans for point-to-point flights are documented on a Flight Request/Flight Schedule form. The procedures for accomplishing agency flight tracking are documented in detail in the [National and Geographic Area Mobilization Guides](#).

Regional Supplement: N/A

Forest Supplement:

5.7 Flight Following

Mission Flight Following

Automated Flight Following (AFF) is required by [FSH5709.16, Chapter 33.1](#) and the preferred method of agency flight following. If the aircraft and flight following office have AFF capability, it shall be utilized. Mission flight following is accomplished by flight crews and dispatchers using AFF and/or radio systems or by personnel using radio systems on the scene of an incident/project where the aircraft is operating.

[Automated Flight Following \(AFF\)](#) does not reduce or eliminate the requirement for FM radio capability and radio communication. Reference the [FSM5709.16, Chapter 33](#) and [National Interagency Mobilization Guide, Chapter 20](#) Flight Following Requirements and Procedures.

The method of flight following for Fire incidents is documented on an Aircraft Resource order or in a Dispatch Center's Mobilization/Operating Guide. The method for flight following non-fire resource missions will be documented in a Project Aviation Safety Plan (PASP) and/or Flight Request/Flight Schedule form.

Regional Supplement: N/A

Forest Supplement:

5.8 Radio Frequency Management/Communications RESERVED

Do not use any frequency without proper authorization from the authorized radio frequency management personnel at the local, state, regional or national level.

Regional Supplement: N/A

Forest Supplement:

5.9 Latitude and Longitude Formats

In order to reduce the possibility of dispatching of aerial resources to incorrect locations, ensure that all units identify the format in which latitude and longitude is being communicated. Latitude and longitude may be communicated in three formats:

A. Degrees Decimal Degree (seldom used)	48.3612°N 114.0812°W
B. Degrees Decimal Minutes (aka) Degrees Minutes Decimal Minutes or Degrees Minutes Tenths <ul style="list-style-type: none">• Aircraft mounted GPS units• Contracts• FAA documents such as airport guides	48°36.12'N 114°08.12'W
C. Degrees Minutes Seconds (many maps) <ul style="list-style-type: none">• ROSS• National Mobilization Guide• TFR requests forms	48°36'12"N 114°08'12"W

There is also a format specific to the [Interagency National Mobilization Guide](#), for requesting TFRs, which is an exception to the above formats. An example would be 483612N/1140812W (uses no punctuation at all with degrees, minutes and seconds).

Reference the [Latitude/Longitude Information for GPS Navigation Information Bulletin](#) for more information.

5.10 Overdue or Missing Aircraft

An aircraft is considered “overdue” when it fails to arrive within 30 minutes after the Estimated Time of Arrival (ETA) and cannot be located.

An aircraft is considered “missing” when its fuel duration has been exceeded, it has been reported as “overdue” to the FAA and the FAA has completed an administrative search for the aircraft without success.

If an aircraft is missing, overdue, or downed, initiate the [Interagency Mishap Response Guide and Checklist](#).

Regional Supplement: The Southern Region uses a standardized template for aviation mishap response. The actions for an overdue or missing aircraft are the same as found in the above referenced document
Forest Supplement:

5.11 Mishap Response

Forest Service local units shall establish procedures in an Emergency Response Plan to, [FSM5720.48](#):

- Coordinate and plan the response to aviation accidents and incidents; and should
- Conduct periodic exercises of mishap response plans.

The Emergency Response Plan is specific to each unit and shall be available in all dispatch offices. The Emergency Response Plan must be updated annually at a minimum.

Regional / Program Aviation Safety Manager should be notified immediately of any aviation accident, incident with potential or NTSB reportable incident.

Regional Supplement: The Regional template ([Regional Template](#)) for aviation mishap response (The Aviation Accident/Incident Response Guide) is updated annually by SACC to reflect Regional and National Interagency contacts and placed on the SACC website under the aviation link. Local units need to use this template as a foundation and incorporate local FAM contacts, local hospitals, “life flights” type resources and pertinent emergency response information (i.e. phone numbers, latitude, longitude and frequency information for area hospital Helibases) into their respective response guides. Responding to aviation mishaps is a rare occurrence, so practice drills and discussion on responding to mishaps should occur at least annually.

Forest Supplement:

5.12 Passengers

A passenger is any person aboard an aircraft, when traveling on official Forest Service business, who does not perform the function of a flight crewmember or air crewmember.

Passengers will:

- Use appropriate personal protective equipment for the type of flights being conducted
- Report aviation incidents, operations deviating from policy, potential incidents
- Ensure personal safety as well as safety for others involved in the flight.

Agency Employees off Duty:

Federal employees cannot utilize annual leave/Leave without Pay (LWOP) or “volunteer” in order to circumvent agency policy. If any aspect of the employee’s activity is related to their official duties, they are conducting agency business, regardless of their pay or leave status.

Refer to the regulations regarding off-duty activities in accordance with the Standards of Ethical Conduct for Employees of the Executive Branch ([5 CFR Part 2635.802-803](#))

Volunteers

Volunteers when traveling on official business are official passengers, within the terms of [FSH 6509.33, Federal Travel Regulations 301-1](#). A [Day Trip Authorization \(FS-5700-12\)](#) shall be filled out for each flight listing each volunteer. During fire mission flights, the Incident Commander with Delegation of Authority from the unit line officer or the local line officer is the appropriate level of approval ([FSM 5716.44- Exhibit 01](#)).

Regional Supplement: N/A

Forest Supplement:

5.13 Transportation of Hazardous Materials

Transportation of hazardous materials aboard agency contracted aircraft must meet the requirements set forth in the [Interagency Aviation Transport of Hazardous Materials Guide](#). When hazardous materials are transported on agency aircraft, the [DOT SP-9198](#) shall be onboard each aircraft.

Hazardous materials transported aboard commercial aircraft shall fall under [49 CFR](#). Employee shall check with commercial carrier prior to traveling. Some commercial carriers may not permit hazardous materials.

Regional Supplement: N/A

Forest Supplement:

5.14 Invasive Species Control

Aquatic invasive species are easily transported in a variety of ways (e.g., helicopter buckets, fixed tank helicopters and SEATs utilizing open water sources, engines and tenders, and other water handling equipment). Agency personnel should become knowledgeable in the preventive measures associated with the prevention of the spread of aquatic plants and invertebrates. Aviation managers should consult with local unit representatives to acquire information associated with: contaminated water sources, approved water sources, cleaning equipment exposed to contaminated water requirements, and other pertinent information.

In addition, the Equipment Technology Committee under the National Wildfire Coordinating Group established an Invasive Species Subcommittee to focus on developing guidance for use in the interagency fire community. Current information is available at http://www.nwcg.gov/branches/et/etc/subcommittees/invasive_species/invasive_species-subcommittee.htm specific to this subcommittee.

Work is underway to develop additional guidance and procedures in the cleaning of equipment that has been exposed to aquatic invasive. Current information concerning cleaning solutions can be found at this web site: <http://www.fs.fed.us/rm/fire/wfcs/documents/watercon.pdf>

Many web sites exist containing information on invasive aquatic species. The following is not an all-inclusive list but will provide the user with specifics about aquatic invasive species, guidance surrounding the prevention of spreading invasive, as well as equipment cleaning information:

Forest Service Region 4 Fire Operations Guidance for Aquatic Invasive Species

- <http://www.fs.fed.us/r4/resources/aquatic/guidelines/index.shtml>

USDA National Invasive Species Information Center Resource Library

- <http://www.invasivespeciesinfo.gov/resources/orgstate.shtml>

Forest Service Technology & Development Water-Source Toolkit

- <http://www.fs.fed.us/t-d/programs/wsa/watertoolkit.htm>

Environmental Protection Agency Useful Links to Invasive Species Information

- http://www.epa.gov/owow/invasive_species/links.html

Forest Service Invasive Species Program

- <http://www.fs.fed.us/invasivespecies/index.shtml>
- <http://www.fs.fed.us/invasivespecies/relatedlinks.shtml>

Forest Service Region 4 Invasive Species Homepage

- <http://www.fs.fed.us/r4/resources/invasives/>

US Fish and Wildlife Service Western Regional Panel on Aquatic Nuisance Species Homepage

- <http://www.fws.gov/answest/default.html>

Global Invasive Species Database

- <http://www.issg.org/database/welcome/>

California Department of Fish and Game Invasive Species

- <http://www.dfg.ca.gov/invasives/>

USDA National Invasive Species Information Center Homepage

- <http://www.invasivespeciesinfo.gov/>

Aquatic Nuisance Species Task Force Homepage

- <http://anstaskforce.gov/default.php>

US Fish and Wildlife Service Invasive Species Homepage

- <http://www.fws.gov/invasives/>

US Geological Survey Non-indigenous Aquatic Species Homepage

- <http://nas.er.usgs.gov/>

Regional Supplement: N/A

Forest Supplement:

5.15 Fire Chemicals and Aerial Application Policy Near Waterways

For operational guidelines on use of fire chemicals, refer to [Implementation Guidance for the Nationwide Aerial Application of Fire Retardants on National Forest Systems Lands](#). For aerial application of pesticides near “waters of the United States”, refer to Environmental Protection Agency’s National Pesticide Discharge Elimination System (NPDES) <http://cfpub.epa.gov/npdes/> and consult your USFS Regional Pesticide Coordinator for NPDES permitting information.

Interagency policy only allows the use of a product that is qualified and approved for intended use. A Qualified Products List (QPL) is published for each wildland fire chemical type and maintained on the Wildland Fire Chemical Systems (WFCS) web site: <http://www.fs.fed.us/rm/fire/wfcs/index.htm>.

Personnel involved in handling, mixing, and applying chemicals or solutions shall be trained in proper safe handling procedures and use the personal protective equipment recommend on the product label and Material Safety Data Sheet (MSDS). The MSDSs for all approved fire chemicals can be found on the

WFSC web site. MSDSs for pesticides or other materials must be available on site for duration of project. One resource for searching MSDSs is <http://www.msdsonline.com/msds-search/>.

Airtanker bases shall have appropriate spill containment facilities (and equipment) in place.

Products must be blended or mixed at the proper ratio by approved methods prior to being loaded into the aircraft. Inaccurate mixing of fire chemicals may negate the suppressant or retarding properties, which is not cost effective and may be a safety factor.

Avoid aerial application of wildland fire chemicals within 300 feet of waterways. Report all retardant misapplications using the report tools located on the USFS Retardant Environment Impact Statement (EIS) website: [Aerial Application of Fire Retardant](#). The following link provides assistance with access to retardant misapplication forms and the reporting process:
http://www.fs.fed.us/fire/retardant/forms/wfcmr_getting_started_guide.pdf

Retardant Avoidance Areas

Additionally, aerial retardant drops are not allowed in mapped avoidance areas for threatened, endangered, proposed, candidate or sensitive species except in cases where human life or public safety is threatened and retardant within an avoidance area could be reasonably expected to alleviate that threat. Maps identifying all retardant avoidance areas (including waterways) can be found at: <http://www.fs.fed.us/fire/retardant/maps.html>. These maps shall be provided to dispatch centers, incident commanders and incident aviation resources.

Regional Supplement: Avoid aerial application of wildland fire chemicals within 300 feet of waterways. **Consult Interagency Standards for Fire and Fire Aviation Operations Handbook** for current reporting processes for any aerial application of retardant, foam or water enhancer (gel) in a waterway or within the 300-foot buffer area; or when a transportation accident results in a spill of a wildland fire chemical into a waterway or within the 300-foot buffer; or when ground resources apply a wildland fire chemical that enters, or has potential to enter a waterway; or when applied on USFS administered lands in the habitats of the 45 Threatened & Endangered Species (TES) identified by the US Fish & Wildlife Service (USFWS) as being the most vulnerable to retardant, regardless of the 300' waterway buffer.

Additionally, aerial retardant drops are not allowed in mapped avoidance areas for threatened, endangered, proposed, candidate or sensitive species except in cases where human life or public safety is threatened and retardant within an avoidance area could be reasonably expected to alleviate that threat. The regional avoidance area maps can be found at:

These maps shall be provided to Dispatch Centers, Airtanker Bases, Incident Commanders and incident aviation resources.

Additional guidance can be found in the “Implementation Guidance for the Nationwide Aerial Application of Fire Retardants on National Forest System Lands”.

Forest Supplement:

5.16 Search and Rescue (SAR)

Refer to the [FSM 5713.53](#) and [FSM 1590](#) regarding search and rescue. Search and rescue operations could lead to actions in conflict with policy. Refer to section [5.5 Emergency Exemptions to Policy](#).

Regional Supplement: The county sheriff or designee is usually responsible for search and rescue of overdue or missing person(s), depending on the legislative jurisdiction of National Forest System lands. Pursuant to 16 USC 575, the Secretary of Agriculture is authorized to incur such expenses as maybe necessary in searching for person(s) lost within the National Forests or to provide transportation to person(s) seriously ill, injured, or who die within the National Forests to the nearest place where the sick or injured person(s) may be transferred to interested parties or local authorities.

- All personnel involved with and assisting other agencies with law enforcement or search and rescue operations should remain within the scope of their training, certification, and employment.
- Proper planning, risk assessments, and briefing the mission prior to an event will significantly reduce risk and improve the odds of success.
- Forest Service owned, contracted, or leased aircraft should not be used in SAR operations outside of our own agency mission (assisting our own employees) unless approved by the Line Officer.
- All SAR helicopter operations will be performed in accordance with IHOG Chapter 17 except when NAMP 5.5 Emergency Exception to Policy applies.

Forest Supplement:

5.17 Large Airtanker Operations

Large Airtankers are a national resource and their primary mission is initial attack. Geographic Areas will make them available for wildland fire assignments when ordered by the National Interagency Coordination Center. In addition to federally contracted airtankers, MAFFS (military) and cooperator aircraft may be utilized to supplement the federal fleet through established agreements.

Operational considerations concerning Large Airtankers can be referenced in the [Interagency Aerial Supervision Guide \(IASG\)](#).

5.17.1 Very Large Airtanker (VLAT) Operations

VLAT's require a VLAT qualified lead plane or aerial supervision module for all missions. Not all airtanker bases are capable of supporting VLAT operations due to runway or ramp limitations. Operational considerations concerning Very Large Airtankers can be referenced in the [Interagency Aerial Supervision Guide \(IASG\)](#)

Airtanker bases must evaluate base size, configuration, retardant capacity and other relevant factors before inserting VLATs into the existing pit areas. Consider establishing a satellite base at the airport or an airport in the proximity.

5.17.2 Airtanker Base Personnel

The airtanker base manager supervises ground operations in accordance with the [Interagency Airtanker Base Operations Guide \(IATBOG\)](#).

Regional Supplement: N/A

Forest Supplement:

5.18 SEAT Operations

SEATs primary mission is initial attack. Mobilization is managed by Dispatch Centers with support by the Bureau of Land Management's National SEAT Coordinator and BLM State Aviation Managers. Operational considerations concerning SEATs can be referenced in the [Interagency SEAT Operations Guide \(ISOG\)](#) and the [Interagency Aerial Supervision Guide \(IASG\)](#).

SEAT Manager (SEMG) responsibilities are outlined in the [ISOG](#), and their training and currency requirements are contained in [NWCG PMS 310-1](#).

Regional Supplement: N/A

Forest Supplement:

5.19 Aerial Supervision Operations

Lead planes (LP) and Aerial Supervision Modules (ASM) are national resources as defined by the National Interagency Mobilization Guide.

Air Tactical Group Supervisor (ATGS) aircraft, LPs, ASMs and Helicopter Coordinators (HLCO) conduct operations in accordance with the [Interagency Aerial Supervision Guide \(IASG\)](#) and the policies and procedures prescribed in the [Interagency Standards for Fire and Fire Aviation Operations Handbook](#). Dispatch and ordering are accomplished in accordance with the Geographic Area and National Mobilization Guides.

Personnel shall be fully qualified as an ATGS to perform air tactical supervision.

Lead planes and ASM will be considered interchangeable in terms of the lead plane mission. An ATGS should be ordered if there is a need for incident air tactical supervision.

Lead plane pilot trainees will be given priority over all ASM flights/ missions.

The Aerial Supervision Program is managed by the WO Aerial Supervision Program Manager.

Regional Supplement: Appendix 10.7 has the current information regarding the Southern Region Leadplane/ASM platform. Schedule this aircraft through the Southern Area Coordination Center(SACC).

Forest Supplement:

5.19.1 Aerial Supervision Personnel

The ATGS manages incident airspace and controls incident air traffic. The ATGS is an airborne firefighter who coordinates, assigns, and evaluates the use of aerial resources in support of incident objectives. The ATGS is the link between ground personnel and incident aircraft.

Air tactical aircraft can be considered a local unit, incident, or geographic resource. Air tactical aircraft must meet the avionics typing requirements listed in the [Interagency Aerial Supervision Guide \(IASG\)](#) and the pilot must be carded to perform the air tactical mission.

Air Tactical Group Supervisors (ATGS) responsibilities and procedures are outlined in the [IASG](#), and the position qualifications, training and currency requirements are contained in the [Forest Service Fire and Aviation Qualifications Guide](#).

The ATGS works for the Air Operations Branch Director (AOBD) when an AOBD is assigned. If an AOBD is not assigned, the ATGS works for the incident commander or designee.

5.19.2 ASM

An ASM is a two person crew consisting of a lead plane pilot and ATGS- ATS (Air Tactical Supervisor). The ASM crew is qualified in their respective positions and has received additional training. An ASM can be utilized as a LP or ATGS depending on the needs of incident management personnel.

ASM responsibilities and procedures are outlined in the [IASG](#). LP pilot responsibilities and procedures are outlined in Forest Service policy ([5714.11 – Exhibit 01](#), [5709.16 Chapter 20](#)) and the [IASG](#).

Lead plane pilot designations are the responsibility of the WO Branch Chief, Pilot Standardization.

ATGS-ATS designations are the responsibility of the WO Aerial Supervision Program Manager.

ASMs work for the ATGS when an ATGS is assigned. If an ATGS is not assigned, the ASM works for the incident commander or designee.

5.19.3 Lead Plane

Lead planes (LP) coordinate, direct, and evaluate airtanker and other incident aircraft operations. The low level capabilities of a lead plane enhance the safety and effectiveness of airtanker operations in the low level turbulent, smoky, and congested fire environment. Lead planes are single pilot aircraft unless a lead plane trainee is assigned.

LP responsibilities and procedures are outlined in Forest Service policy ([5714.11 – Exhibit 01](#), [5709.16 Chapter 20](#)) and the [IASG](#).

Lead plane pilot designations are the responsibility of the WO Branch Chief, Pilot Standardization. Lead planes work for the ATGS when an ATGS is assigned. If an ATGS is not assigned, the LP works for the incident commander or designee.

5.19.4 HLCO

The HLCO coordinates, directs, and evaluates tactical/logistical helicopter operations. The HLCO works for the ATGS. This position is typically activated on complex incidents where several helicopters are assigned. A HLCO can reduce the span of control of the ATGS by managing all the helicopters over an incident.

HLCO responsibilities and procedures are outlined in the [IASG](#). The position qualifications, training and currency requirements for the HLCO are contained in the [Forest Service Fire and Aviation Qualifications Guide](#).

HLCOs work for the ATGS when an ATGS is assigned. If an ATGS is not assigned, the HLCO works for the incident commander or designee.

5.20 Helicopter Operations

All helicopter operations shall be accomplished in accordance with the [Interagency Helicopter Operations Guide \(IHOG\)](#), the Aerial Ignition Guide, and the aircraft contract.

The applicable Hover out of Ground Effect (HOGE) chart will be used for initial attack operations, first time into remote landing site, or when the pilot deems that environmental conditions warrant use of HOGE chart.

5.20.1 Helitack

Each unit hosting an exclusive-use helicopter is responsible for providing essential management, overhead, equipment, facilities and the resources necessary to fully support the helitack crew. Minimum crew staffing is contained in the [Interagency Standards for Fire and Fire Aviation Operations](#). Helicopter personnel responsibilities are outlined in the [IHOG](#), and their training and currency requirements are contained in the [Forest Service Fire and Aviation Qualifications Guide](#).

5.20.2 Rappel

Rappel activities will be conducted in compliance with the [Interagency Helicopter Rappel Guide](#) and [National Rappel Operations Guide](#).

5.20.3 Cargo Letdown

Cargo letdown will be conducted in compliance with the [Interagency Helicopter Rappel Guide](#) and [National Rappel Operations Guide](#).

Regional Supplement: Rappel/Cargo Letdown/Toe-in, are prohibited in the Southern Region.
Forest Supplement:

5.20.4 LEI Short-Haul and Hoist

Short-Haul and Hoist operations are approved for Region 5 Law Enforcement and Investigations at this time. Short-Haul and Hoist operations will be conducted in compliance with the [IHOG](#) and the Forest Service (FS) National Law Enforcement and Investigations (LEI) Short-Haul and Hoist (S-H/H) Guide.

Region 6 LEI may be approved for Short-haul and / or hoist operations in 2015. If so, an approval letter will be issued by the Deputy Chief, State and Private Forestry and the Director of LEI.

Regional Supplement: N/A

Forest Supplement:

Emergency Medical Short-Haul

Emergency Medical Short-Haul may be initiated in 2015 to support the rapid evacuation of severely injured wildland firefighters. If initiated in 2015, direction will be forthcoming on policy and procedures.

5.20.5 Helicopter Bucket and Tank Operations

Helicopter Bucket and Tank Operations will be conducted in compliance with the [IHOG](#).

5.20.6 Helicopter External Load Operations

Helicopter External Load Operations will be conducted in compliance with the [IHOG](#).

5.20.7 Night Helicopter Operations

Forest Service Night Helicopter Operations are only authorized in Region 5. Night helicopter operations are restricted to fixed tank, ground fill only. Night helicopter operations will be conducted in compliance with the National Night Air Operations Plan.

Regional Supplement: N/A

Forest Supplement:

5.20.8 Helicopter Screening and Evaluation Board

The Helicopter Screening and Evaluation Board (HSEB) will provide guidance for standardization when evaluating new interagency helicopters and related accessories.

5.21 Aerial Ignition Operations

Aerial ignition operations and projects are accomplished in accordance with the [Interagency Aerial Ignition Guide](#).

Regional Supplement: N/A

Forest Supplement:

5.22 Wild Horse & Burro Operations

RESERVED

Regional Supplement: N/A

Forest Supplement:

5.23 Aerial Capture, Eradication and Tagging of Animals (ACETA)

RESERVED

Regional Supplement: N/A

Forest Supplement:

5.24 Water Scooper Operations

Water scoopers are a national resource and should be managed and used much like heavy helicopters. Operations will be in compliance with the Water Scooper Evaluation and Operations Plan

5.25 Smokejumper Operations

Smokejumper dispatch and ordering are accomplished in accordance with the Geographic and National Mobilization Guides and [Interagency Smokejumper Operations Guide \(ISMOG\)](#).

5.25.1 Smokejumper Personnel

Smokejumpers: Smokejumper operations are performed according to the [Interagency Smokejumper Operations Guide \(ISMOG\)](#), and the policies and procedures prescribed in the [Interagency Standards for Fire and Aviation Operations Handbook](#).

Smokejumper Pilots: The [Interagency Smokejumper Pilot Operations Guide \(ISPOG\)](#) serves as policy for smokejumper pilots' qualifications, training and operations.

5.25.2 Smokejumper Aircraft

Smokejumper aircraft are evaluated and approved by the Smokejumper Aircraft Screening and Evaluation Board (SASEB). The SASEB will provide guidance for standardization when evaluating new smokejumper aircraft and related accessories.

5.26 Light Fixed-Wing Operations

Fixed-wing dispatch, ordering, and operations are accomplished in accordance with the local geographic area and National Mobilization guides.

For all non-fire flights, the [IAT Guide](#) provides the training standards for fixed-wing flight managers (FWFM) in charge of point-to-point and FWFM Special-Use mission flights. A qualified FWFM shall be assigned to point-to-point flights and FWFM Special-Use for mission flights.

Low-level Flight Operations (Less than 500 feet AGL)

The only fixed-wing aircraft missions authorized are:

- Para-cargo.
- Aerial Supervision Module (ASM) and lead profile operations.
- Aerial retardant, water and foam application.
- Aerial Seeding/Spraying

Operational Procedures:

- A high-level recon will be made prior to low-level flight operations.
- All flights below 500 feet will be contained to the area of operation.
- PPE is required for all fixed-wing, low-level flights. Helmets are not required for multi-engine airtanker crews, smokejumper pilots and ASM flight/aircrew members.

Regional Supplement: The following is a list of fixed-wing operations conducted in Region 8. This is not an all-inclusive list.

1. Reconnaissance
2. Law Enforcement
3. Remote Sensing
4. Administrative Transport
5. Aerial Supervision
6. Mapping / Aerial Surveys

Forest Supplement:

5.26.1 Reconnaissance or Patrol Flights

The purpose of aerial reconnaissance or detection flights is to gather and relay information. In addition to detecting, mapping, and sizing up fires, this resource may be utilized to provide ground resources with intelligence, and provide recommendations to the appropriate individuals.

Only qualified Aerial Supervisors (ATGS, ASM, HLCO, and Lead) are authorized to coordinate incident airspace operations. Flights with a “Recon, Detection, or Patrol” designation should communicate with tactical aircraft only to announce location, altitude, and to relay their departure direction and altitude from the incident.

5.26.2 Single Engine Instrument Meteorological Conditions and Night Flight

Reference the policy change for single engine instrument meteorological conditions and night flight policy, [FSM 5716.12](#).

5.27 Law Enforcement and Investigations (LEI) Operations

The LEI personnel shall follow the [FSH 5309.11, Chapter 50](#), [FSM 5700](#), and [FSH 5709.16](#) for all aviation operations.

Local LEI personnel that are required to utilize aircraft to support aviation operations should discuss all aspects of the operation with the FAO or UAO well in advance of operations.

All transport of hazardous materials during LEI operations shall follow the [Interagency Aviation Transport of Hazardous Materials](#) Guide.

Regional Supplement: The Law Enforcement and Investigations Group annually develops and maintains a Regional Law Enforcement and Investigations Aviation Plan. It is kept on file at the Regional Office.

Forest Supplement:

5.27.1 Special Law Enforcement Aviation Projects

Occasionally there are “special” law enforcement aviation missions that are not covered in a standard PASP. If any proposed flights are not covered by an appropriately established aviation plan, then a PASP will be prepared. This includes the use of aviation resources for Flight Service Contracts.

The responsible individual will prepare a PASP and submit the plan for review and approval. All LEI operations will have a PASP prior to commencing operations. Line officers shall be informed of law enforcement and investigator non-covert aviation activities within their area of responsibility.

5.27.2 LEI Training

LEI personnel involved with aviation activities shall receive and be current in required aviation training (NWCG and/or IAT) commensurate with the aviation position they will fill, prior to any aviation operations.

5.27.3 Civil Air Patrol (CAP)

A new MOA is being developed between the USFS and CAP. It will restrict use of CAP to LEI only and limit the make and model of aircraft that can be used. Regions will approve CAP pilots and aircraft based on the MOA.

LEI personnel will utilize aircraft and pilots that have been approved for use by a letter of approval from the Regional Aviation officer.

Not all CAP pilots and/or aircraft will be approved for use. Aircraft contracted for fire/resource operations are not mandated to participate in LEI operations. Aircraft companies must agree to participate in LEI operations. Missions outside of the scope of the contract require a contract modification.

Certain LEI operations could lead to actions in conflict with Forest Service policy; reference [Section 5.5 Emergency Exception to Policy](#).

5.27.4 Department of Homeland Security (DHS)

The Chief issued a letter ([Appendix 10.4 Authorization for Law Enforcement and Investigations Employees to Fly on Department of Justice \(DOJ\) and Department of Homeland Security \(DHS\) Aircraft](#)) that permits LEI employees on official duty to fly aboard DHS and DOJ owned and operated aircraft while performing joint law enforcement operations and coordinating missions with DHS agencies.

5.27.5 LEI Personal Protective Equipment (PPE) During Tactical Operations

Follow the direction on the use of personal protective equipment (PPE) described in the [Interagency Helicopter Operations Guide \(IHOG\) \(NFES 1885\)](#). Approved PPE must be prescribed by the incident commander, operations supervisor, or their designee per [FSM 5300](#). Law enforcement personnel are authorized to wear the following for special tactical operations, for emergency flights, or on flights that are short in duration:

- Battlefield dress uniform (BDU),
- Forest Service uniform, or
- Approved utility uniform.

5.27.6 Emergency Operations

The LEI personnel shall follow the [FSH 5309.11, Chapter 52.15 – Emergency Operations](#)

Regional Supplement: N/A

Forest Supplement:

5.28 Unmanned Aerial Systems (UAS)

Unmanned Aerial Systems operating in the national airspace system are considered by the Federal Aviation Administration (FAA) as aircraft, regardless of size. Accordingly, any planned use (including through agreements), acquisition, contracting or leasing of UAS must be coordinated with the Forest Service Washington Office, Fire and Aviation Management, Assistant Director Aviation and the delegated Washington Office, Fire and Aviation Management, Technical Contact. Additionally, the appropriate Regional Aviation Officer (RAO) shall be included in any discussion about proposed UAS operations.

The FAA Unmanned Aircraft Program Office has developed the [Interim Operational Approval Guidance, 08-01](#), for UAS applications. Forest Service policy regarding UAS is located in [FSM 5713.7](#). Unmanned aircraft are to be considered the same as manned aircraft.

Any Forest Service leased, contracted, or owned UAS will require a Certificate of Authorization (COA) from the FAA before operating within the national airspace system. The COA request process is extensive and includes requirements similar to manned aircraft in terms of pilot training and currency, airworthiness approval, avionics, and operational restrictions.

Other agencies that have already completed the COA process will be considered Cooperator aircraft ([FSM 5710.35](#)). Military and cooperator aircraft approval shall meet the requirements in the [FSM 5713.43](#). UAS operated by the military or cooperators for the Forest Service missions are subject to the approval requirements in [FSM 5713.7](#).

Forest Service COA applications must be submitted by the Forest Service Washington Office, Fire and Aviation Management, Technical Contact. The FAA lead time is approximately 60 days. Changes to an existing COA can occur using the emergency COA process and at a minimum takes 24 to 48 hours.

Initial requirements to utilize an UAS:

- Coordinated with RAO and WO
- Complete a Risk Assessment utilizing [HJA-6 4/2009](#) to determine if an UAS is the most appropriate platform for the mission. If yes, then;
- Request COA
- Create a [Project Aviation Safety Plan \(PASP\)](#) that includes the mission requirements.

Leadership recognizes the high potential for UAS operations and the importance of the program. Since this is a new program, the FS intends to proceed cautiously.

Regional Supplement: N/A

Forest Supplement:

5.29 Forest Health Protection (FHP) Operations

FHP utilizes light fixed and rotor wing aircraft to conduct aerial reconnaissance, aerial photography and aerial application. The purpose of these operations is to gather information regarding forest health conditions and manage pests in accordance with [FSM 2100](#) and [FSM 3400](#).

All FHP aviation operations should be coordinated with the appropriate Regional Aviation Officer. Dispatch, ordering, and operations are accomplished in accordance with the local geographic area and [National Mobilization Guide](#) and [the Interagency Helicopter Operations Guide \(IHOG\)](#).

For all non-fire flights, the [IAT Guide](#) provides minimum training standards for fixed-wing flight managers (FWFM) in charge of point-to-point and FWFM Special-Use mission flights. Additional training required by FHP and the FWFM Special-Use Aerial Survey Observer Task Book are available at www.fs.fed.us/foresthealth/aviation/training.shtml. All aerial reconnaissance and photography mission flights shall utilize a qualified FWFM Special-Use for fixed-wing and qualified Helicopter Manager for rotor wing. Agency personnel are not permitted on board restricted category aerial application aircraft and full PPE is required for aerial application pilots operating low level.

Typical operational altitudes:

- Aerial Application in either fixed or rotor-wing, low level (below 500 feet AGL)
- Fixed-wing Aerial Survey a minimum of 1,000 feet above ground level (AGL)
- Rotor-wing Aerial Survey in accordance with IHOG, used in special circumstances and may be low level
- Fixed-wing Aerial Photography and Remote Sensing, highly variable up to ~18,000 feet

Regional Supplement: Wilderness Areas

Helicopter use in wilderness areas must first be approved for fire, project, or emergency situations according to each specific Wilderness Plan. Long-line operations require a risk assessment, including consideration of other delivery methods before use. Long-line operations are classified as helicopter landings in some wilderness areas and require approval before use.

Forest Supplement:

6.0 Aviation Training

6.1 Aviation Training for All Flight Activities and Positions

Aviation training is essential to aircraft pilots (both contract and employee), aviation users, supervisors, and managers to ensure that they are knowledgeable of the inherent hazards of aviation operations. The Forest Service Aviation Training Program is a “fire” and “non-fire” system. The [National Wildland Coordinating Group PMS 310-1](#) and [Forest Service Fire and Aviation Qualifications Guide](#) directs the fire qualifications ([FSH 5109.17](#)), while the [Interagency Aviation Training Guide](#) regulates the “non-fire” qualifications. Personnel serving in NWCG positions need only meet the qualification and currency requirements required in [Forest Service Fire and Aviation Qualifications Guide](#) / [PMS 310-1](#) or other interagency guidance as appropriate (Smokejumper Spotter, [Interagency Aerial Supervision Guide \(IASG\)](#), etc.).

The objectives of selection, recruitment, development and training are to improve safety, quality and efficiency by placing employees in jobs to which they are suited and qualified. Although this concept is obvious, it is fundamental at all levels within an agency and worthy of emphasis. The appropriate experience and training requirements for safety-related posts must be defined, monitored and recorded.

Regional Supplement: N/A

Forest Supplement:

6.2 Responsibility

The Washington Office, Branch Chief, Aviation Safety Management Systems is responsible for national oversight of the aviation safety education program and aviation accident prevention efforts ([FSM 5720.45](#)).

It is management’s responsibility to provide training and career development opportunities to personnel under its control, to expand, improve, correct deficiencies, or meet job performance requirements.

It is every employee’s responsibility to take advantage of aviation training opportunities and to notify their supervisor of any aviation training they believe they require for accomplishing their jobs safely and efficiently.

Regional Supplement: The regional RASM is responsible for assuring the region provides the necessary training to ensure we are operating at the lowest risk acceptable and for successional planning.

Forest Supplement:

6.3 Instructor Standards

Aviation trainers provide specialized training in many aviation job skills, e.g., helitack, aerial attack, SEAT manager, aerial ignition, rappel, and helicopter management. The Interagency Aviation Training (IAT) guide identifies position training requirements for non-fire aviation functions. Specialized training courses can be accessed on the IAT website at: <http://iat.nifc.gov/online.asp>.

Personnel serving in NWCG instructor positions need to meet the qualification and currency requirements in [Forest Service Fire and Aviation Qualifications Guide](#) and the [PMS 901-1 Field Manager's Course Guide](#).

Regional Supplement: N/A

Forest Supplement:

6.4 Records Management

All employee training records shall meet the requirements stated in the [Forest Service Fire and Aviation Qualifications Guide](#) for all NWCG qualifications. All training records for non-fire qualifications (IAT) shall either reside with the Training Officer or the Forest Aviation Officer.

Each operating unit needs to develop and implement plans for the identification of initial and recurrent aviation training needs specific to its missions.

Areas of aviation training are:

- Orientation and basic aviation safety for all users
- Flight Manager Training
- Dispatching and flight-following procedures
- Management of aviation operations and equipment
- Planning, risk assessment and execution of projects using aviation resources
- Proficiency and special mission training for pilots
- Technical training on aviation equipment and aircraft maintenance
- Advanced safety management systems (SMS) and quality assurance for aviation professionals and specialists

Regional Supplement: N/A

Forest Supplement:

6.5 Tuition and Travel

Forest Service management is dedicated to conducting or providing for professional and technical training of employee or contract personnel at all levels of the organization that use and/or influence the use of aviation resources. Supervisors are to provide adequate levels of funding for the tuition and travel to attend training that will maintain aviation personnel currency and advance their skills.

Regional Supplement: N/A

Forest Supplement:

6.6 Development

The Forest Service encourages development of interested personnel who desire to pursue an aviation career path. Developmental positions (e.g., Regional Aviation Management Specialists) and all positions that have aviation operations responsibility are advised to attend courses that encompass Advanced Aviation Management Training (AAMT) [Aviation Training](#).

Regional Supplement: N/A

Forest Supplement:

6.7 IAT/NWCG Crosswalk

NWCG / Forest Service Fire and Aviation Qualifications Guide Qualifications	IAT Resource Qualifications
HECM	Aircrew Member
ACDP	Aircraft Dispatcher
AOBD, ASGS, ATGS	Aviation Manager
AOBD, ASGS, ATGS, HLCO	Fixed-Wing Flight Manager –Special Use
HMGB	Helicopter Manager-Resource
AOBD, ASGS, HEB1/2	Project Aviation Manager
AOBD	Supervisor

The positions listed in the NWCG / [Forest Service Fire and Aviation Qualifications Guide](#) Qualifications column will crosswalk into the non-fire IAT Resource Qualifications.

If individuals do not meet the NWCG / [Forest Service Fire and Aviation Qualifications Guide](#) Qualifications (above), they shall follow the training requirements found in the [IAT Guide](#) in order to conduct/oversee non-fire resource aviation operations.

Regional Supplement: N/A

Forest Supplement:

6.8 Aviation Contracting Officer Representative (COR) Requirements

Aviation COR's must meet initial training and maintenance requirements as stipulated in Agency Acquisition Regulations (AGAR).

Regional Supplement: CORs must maintain documentation of all training; enter data into the Federal Acquisitions Institute Training Application System (FAITAS):

<https://www.atrrs.army.mil/faitas/External/Login/?ReturnUrl=%2ffaitas%2f>

Designate Inspectors. Supervisors of CORs must develop training plans that meet requirements, determine the level of the COR, evaluate competencies and ensure documentation and FAITAS data entries are completed. The supervisor of the COR is responsible for submitting names to the Contracting Officer (CO) for determination of certification requirements. The CO will make the final determination and designation of CORs

Forest Supplement:

6.9 Crew Resource Management (CRM) Training

The October 2014 issuance of the [National Incident Management System Wildland Fire Qualification System Guide, PMS 310-1](#) and [Forest Service Fire & Aviation Qualification Guide \(FSFAQG\)](#) will require the course *N9059-Crew Resource Management 7 Skills* for Air Tactical Group Supervisor (ATGS).

CRM is also required for the following positions:

- Rappel Spotters
- Rappel Pilots
- Smokejumper Spotters
- EU Fire Helicopter Crew Supervisors
- EU Asst. Helicopter Crew Supervisors
- Aircrew Members
- Pilots

Reference the Forest Service Fire & Aviation Qualification Guide.

7.0 Airspace Coordination

7.1 Interagency Airspace Coordination

Interagency airspace coordination is accomplished through the Interagency Airspace Steering Committee (IASC) chartered under the National Interagency Aviation Council (NIAC). Guidance and education is provided through the [Interagency Airspace Coordination Guide](#).

Regional Supplement: N/A

Forest Supplement:

7.2 Fire Traffic Area (FTA)

The FTA provides a standardized initial attack sequence structure to enhance air traffic separation over wildfire or all-hazard incidents. The structure emphasizes established communications, clearances and compliances. The FTA process will be used by all tactical aircraft. The local dispatch center will be the initial point of contact for aviation resources approaching and departing the FTA when no aerial supervision is in place. If aerial supervision is not on scene, the first responding aircraft must establish / control the FTA until aerial supervision arrives, as specified in the [Interagency Aerial Supervision Guide \(IASG\)](#).

See the [Interagency Aerial Supervision Guide \(IASG\)](#) for details.

Regional Supplement: N/A

Forest Supplement:

7.3 Temporary Flight Restriction (TFR)

In order to enhance safety during an incident, the FAA may be requested to issue a TFR that closes the airspace to non-participating aircraft (with some exceptions). While there are currently nine different types of TFR's, the most commonly issued TFR for wildfire is [14 CFR 91.137 \(a\) 2](#) which is explicit as to what operations are prohibited, restricted, or allowed. Aviation Managers requesting a TFR should be familiar with the ordering procedures, coordination protocol and exceptions that are outlined in [Chapter 6](#) of the [Interagency Airspace Coordination Guide](#).

Regional Supplement: N/A

Forest Supplement:

7.4 Aircraft Transponder Code (Firefighting)

The FAA has provided the 1255 Transponder code as the national designation for firefighting aircraft. It is not agency specific. The code should be utilized by aircraft responding to and operating over fire incidents supporting suppression operations (unless otherwise directed by Air Traffic Control (ATC)). It is not to be used for repositioning or during cross-country flights.

Regional Supplement: N/A

Forest Supplement:

7.5 Airspace Boundary Plan

When resources are dispatched by more than one unit to an incident that shares a common boundary, care should be taken to ensure safe separation and communication of responding aircraft. Boundary Plans should be prepared that focus on a 10 NM wide “neutral airspace” corridor for mutual or exchanged initial attack area’s or zones.

7.5.1 International Airspace Boundary – Mexico

Aircraft entering Mexican airspace must follow established protocols and communicate mission details to the appropriate Interagency Dispatch Center. Aircraft must **not** enter Mexican airspace without consent from the coordinating authorities and concurrence from the identified aerial supervision. Permission must be received from National Forestry Commission of Mexico (CONAFOR) prior to entering Mexican airspace.

7.5.2 International Airspace Boundary – Canada

Aviation operations across the U.S.A./Canada border must be conducted in accordance with The Canada/United States Reciprocal Forest Fire Fighting Arrangement (NMG chapter 40) or the normal US Customs and Border Protection procedures. Flights must follow protocol established by the respective coordinating authorities and involve the appropriate Dispatch Center. Such flights usually require prior notification, special tracking procedures and an understanding of the mutually agreed upon operating parameters.

Regional Supplement: N/A

Forest Supplement:

7.6 Airspace De-confliction

Airspace de-confliction can occur for both emergency response and non-emergency aviation activities.

De-confliction can be accomplished through the following measures:

- Pilots must obtain all information pertinent to flight before flying. This is accomplished by obtaining a briefing from the FAA through the Flight Service Stations. This is the official source of NOTAM information.
- Dispatching units may obtain scheduling information from DoD units that have Special Use Airspace or Military Training Routes and share this information as “hazards” information on the Resource Order when the aircraft is dispatched. For non-emergency flights, information may be shared through common communication protocol.
- Aviation Internet websites are prolific on the internet. When used for obtaining airspace information, the user must be aware of any disclaimers regarding the timeliness of the information posted. The FAA’s US NOTAM office provides current TFR information through DINS (DoD Internet NOTAM Service) at <https://www.notams.faa.gov>.

Regional Supplement: When conditions warrant, the Regional Aviation Group will initiate a conference call between cooperators, IMTs and GACCs to coordinate airspace issues.

Forest Supplement:

7.7 Airspace Conflicts

Aviation personnel have a responsibility to identify and report conflicts and incidents through the [Interagency SAFECOM \(Safety Communication\) System](#) to assist in the resolution of airspace conflicts. When a conflict or incident occurs, it may indicate a significant aviation safety hazard. Conflicts may include Near Mid Air Collisions (NMAC), TFR intrusions, and FTA communication non-compliance. Further guidance is available in [Chapter 8 of the Interagency Airspace Coordination Guide](#).

Regional Supplement: N/A

Forest Supplement:

7.8 Airspace Agreements – Memorandums of Understanding

When Special Use Airspace (SUA's), Military Training Routes (MTR's), Slow Routes (SR's), or Aerial Refueling Routes (AR's) are located over lands within an agency's jurisdiction or within their area of normal flight operations (fire or non-fire), the agency should consider instituting an agreement with the appropriate DoD entity that schedules the airspace. Airspace agreements establish protocol for emergency and non-emergency contacts. They provide local level leadership a tool that defines protocols to address recurring activities, coordination of time critical responses, de-confliction and resolving issues in a timely manner. Initiation of an agreement can begin by contacting the Military Representative to the FAA located at FAA Service Centers, Air Force Representative, Navy Representative, and Department of Army Representative. A template and sample format is provided in [Chapter 12 of the Interagency Airspace Coordination Guide](#).

Regional Supplement: N/A

Forest Supplement:

8.0 Aviation Security

8.1 Aviation Security

The policies and procedures in this chapter when implemented are intended to make the theft of FS aircraft more difficult and time consuming and therefore reduce the threat to our facilities from criminal elements.

The FS will provide an aviation security program that will include:

- Aviation facilities and aircraft security standards
- Aviation security measures that respond to alerts of the Homeland Security National Terrorism Alert System (NTAS)
- Quick response emergency procedures

Regional Supplement: N/A

Forest Supplement:

8.2 FS Facilities Security Risk Assessments

Each Forest Service aviation facility must complete a risk assessment on a timeline based on its Facility Security Level (FSL) to determine the security standard. The FSL can be determined using the document Facility Security Level Determinations for Federal Facilities, An Interagency Security Committee Standard.

The risk assessment must include an analysis of:

- The vulnerability level of the facility, which is any weakness in the design or operation of a facility that can be exploited by an adversary.
- The probability of threat, or the likelihood of an undesirable event occurring over time.
- The severity of event consequences, which is the level, duration, and nature of the loss resulting from an undesirable event.

Reference the [FSH 5709.16 Chapter 60](#) for the FS Risk Assessment.

Regional Supplement: This is the 60 page checklist found in Chapter 6 of the Department of Agriculture's Integrated Physical Security Standards & Procedures Handbook. A copy of the completed self-assessment shall be retained at the local unit, and one copy shall be submitted to the Regional Office by November 30 for collation of all aviation bases and then submission by the RO to meet the WO deadline.

Forest Supplement:

8.3 FS Security Response Actions

The objective is to ensure that the FS is prepared to increase security standards at agency aviation facilities in response to an alert of the Homeland Security National Terrorism Alert System.

It is FS policy to immediately adjust the level of aviation security any time an NTAS Alert is issued for the facility.

Regional Supplement: The Regional Base Security Plan demonstrates the template to be followed. Aviation Base Security Plans shall be reviewed by the Regional Office annually.

Forest Supplement:

8.4 General Aviation Security Awareness Programs

RESERVED

Regional Supplement: N/A

Forest Supplement:

8.5 Aircraft Security Information (Cooperators)

The security of cooperator provided aircraft and equipment is the responsibility of the cooperator.

Regional Supplement: Aircraft shall be electrically and/or mechanically disabled by two independent security systems whenever the aircraft is unattended. Deactivating security systems shall be incorporated into preflight checklists to prevent accidental damage to the aircraft or interfere with safety of flight.

Examples of Unacceptable disabling systems are:

- Locked door/windows
- Fenced parking areas

Forest Supplement:

8.6 TSA Commercial Airport Security

Commercial airport security requirements can be found at the [Transportation Security Administration \(TSA\)](#) web site.

Regional Supplement: Forests should work with local airports to establish a procedure for escorting transient pilots and mechanics that base their operations within a Security Information Display Area (SIDA). As an example; a Type I helicopter could be based at a commercial airport in support of a large fire for a number of days. The mechanic supporting that helicopter will require access to the aircraft on the airport at all hours. The airport may require that the mechanic be escorted by an authorized individual.

Forests can work with their local airports to receive training and background checks to obtain the appropriate credentials to escort pilots and mechanics to operate within the SIDA. All airports will have personnel authorized to escort personnel in the SIDA, however they may not be staffed to support the 24 hour a day support required for some aircraft operations. (See Appendix 10.08 for further information on Airport Security)

9.0 Aviation Facilities

9.1 General

All facilities managers are responsible for providing aviation facilities, within their respective area, that are safe, adequate, and are in compliance with applicable Forest Service regulations.

Regional Supplement: N/A

Forest Supplement:

9.2 Permanent Aviation Facilities

These facilities (helibases, retardant bases, and airport facilities) are permanent installations (owned and leased) and are used on a continuous or seasonal basis for aviation operations. These include aviation facilities on Forest Service property and facilities on non-Forest Service land where Forest Service has primary responsibility for operations, maintenance, and oversight. Facility base reviews shall be conducted in accordance with the [Interagency Helicopter Operations Guide \(IHOG\), Appendix E](#); [Interagency Airtanker Operations Base Guide \(IATOBG\), Chapter 5 Section B](#); and [Interagency Standards for Fire and Fire Aviation Operations, Chapter 18](#).

Regional Supplement: N/A

Forest Supplement:

9.3 Temporary Aviation Facilities

Temporary bases are sites that are used on a temporary or intermittent basis (helispots and remote airstrips). Sites not located on Forest Service land must be pre-approved and use shall be documented in an Agreement. Each site should be cataloged as to location, description, local hazards, use procedures, agreements, and contacts. Preseason inspection and maintenance should be completed as necessary to meet agency safety requirements.

Regional Supplement: N/A

Forest Supplement:

9.4 Safety

Aviation facilities must comply with safety regulations outlined in Forest Service manuals, guides, handbooks, and the [Occupational Safety and Health Act \(OSHA\)](#). Building equipment and landing surfaces will be inspected by FOAs annually to identify any maintenance or safety deficiencies.

Regional Supplement: N/A

Forest Supplement:

9.5 Agency Owned/ Operated Facilities

Refer to the [Building and Facilities Related Handbook FSH 7309.11](#) for information regarding:

- Planning
- Development
- Management
- Special-Use Facilities
- Records and Reports

Regional Supplement: N/A

Forest Supplement:

9.6 Agency Owned/Operated Airstrips

Forest Service owned and operated airstrips will be maintained in accordance with FSM 7709.58, Chapter 30.

Regional Supplement: N/A

Forest Supplement:

9.7 Leasing

Leased facility needs can be met through the Acquisition Management (AQM) organization, either via lease or grants and agreements. These are more fully described on the AQM website:

<http://fsweb.wo.fs.fed.us/aqm/>. Facilities can also be acquired on Government-owned land by means of land exchanges.

Regional Supplement: N/A

Forest Supplement:

9.8 Funding

RESERVED

Regional Supplement: N/A

Forest Supplement:

9.9 Land Use Agreements

Simplified acquisition procedures should be used to acquire the use of property or facilities for emergency incidents. Emergency incident agreements do not require special leasing authority.

Procurement officials with warrant authority may enter into these agreements. More detailed information is available in the [Interagency Incident Business Management Handbook, Chapter 20](#).

Regional Supplement: N/A

Forest Supplement:

9.10 Facilities Security

All sites will be provided with appropriate physical security measures commensurate with the risk of loss of operating capability, irreplaceable data, or expensive property ([FSH 7309.11, 41.2](#)).

- Equip all buildings with locks. The keys shall be managed by the facility manager or other individual designated by the line officer. Where emergency access by non-unit personnel is necessary for fire management and other common occurrences, use master locks.
- Install signs and fences and/or provide other physical deterrents to warn and retard entry to all remote sites containing vulnerable operations such as telecommunications and research projects. Consider maintainability in the design of fences in areas subject to heavy snow, ice, and wind conditions.

- Restrict entry of unauthorized personnel into operations such as flammable, chemical and pesticide storage rooms or buildings, explosive storage facilities, computer rooms, biologically sensitive and controlled-environment areas, and others as the facility manager and policy deem necessary.

Refer to [Chapter 8](#) in the National Aviation Safety and Management Plan and [FS Manual 5709.16 Chapter 60, Aviation Security](#) for additional facilities security.

Regional Supplement: N/A

Forest Supplement:

10.0 Appendix

10.1 Sample Letter of Cooperator Approval

10.2 Cooperator Approval Guide

10.3 Authorization letter for law Enforcement and Investigation Employees

10.4 Project Proposal Template

Regional Appendix

10.5 Policy Change -FMS5700 & 5709.16, Instrument Flight Conditions and Night

10.6 Aviation Unit Contact List

10.7 Regional leased aircraft information

10.8 Southern Region Type 3 Helicopter “Limited Use” Authorization

10.9 Authorization for Law Enforcement and Investigations Employees to Fly on Department of Justice (DOJ) and Department of Homeland Security (DHS) Aircraft

10.10 Forest Aviation Plan Supplement Checklist

10.11 Airport Security 49 CFR 1542

10.12 Project Aviation Safety Plan Template (PASP)

10.13 Regional Aviation Safety Plan Guide for Forest or Unit Plans

10.1 Sample Letter of Cooperator Approval
RESERVED

10.2 Cooperator Approval Guide

RESERVED

10.3 Authorization for Law Enforcement and Investigations Employees to Fly on Department of Justice (DOJ) and Department of Homeland Security (DHS) Aircraft



Forest
Service

Washington
Office

1400 Independence Avenue, SW
Washington, DC 20250

File Code: 5300/5700

Date: May 20, 2013

Route To:

Subject: Authorization for Law Enforcement and Investigations Employees to Fly on
Department of Justice (DOJ) and Department of Homeland Security (DHS)
Aircraft

To: Director, Law Enforcement and Investigations

This letter will permit Forest Service (FS) Law Enforcement & Investigations (LEI) employees on official duty to fly aboard Department of Justice (DOJ) and Department of Homeland Security (DHS) owned and operated aircraft while performing joint law enforcement operations and coordinating missions with the respective agencies.

Agreements with DOJ and DHS regarding joint law enforcement aviation operations should be used to provide overall operational requirements and procedures for all agencies.

This letter specific to DOJ and DHS owned and operated aircraft used by FS LEI employees on official duty will meet the intent of FS Manual (FSM) 5704.9 which requires that all FS employees "shall fly only in approved government (refer to Government Aircraft definition in FSM 5705) aircraft flown by an approved pilot(s)."

The FS law enforcement program has unique mission requirements and a need for close interagency coordination and cooperation with the DOJ and DHS.

Field-level LEI employees are required to notify the Regional Special Agent-in-Charge and Washington Office employees the Director of LEI, when using this approval.

The Director of LEI is responsible for ensuring overall employee safety under this exemption.

This letter rescinds the Flight Authorization on Department of Homeland Security Aircraft letter dated May 20, 2008.

/s/ **James E. Hubbard**

JAMES E. HUBBARD

Deputy Chief, State and Private Forestry

cc: Robert A Baird, Dan Olsen, Ron Hanks, John A Nelson, Thomas A Cook, Tom Harbour,
Ezequiel N Parrilla, Caleb A Berry



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10.4 Project Proposal Template

USDA Forest Service
Fire & Aviation Management
Aviation Division

***PROJECT or PROGRAM or ISSUE
PROPOSAL NAME***



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GENERAL PROCESS INFORMATION

This Project, Program, Issue Proposal Template (PPT) is included in the National Aviation Safety and Management Plan (NASMP).

Utilize the PPT when proposing the following:

- New equipment, e.g., aircraft, parachute, etc.
- New contractor contract change, e.g., VLAT, LFS Helicopter, etc.
- New agreement or MOUs.
- New process or changed process, e.g., rappel standardization, RADS, etc.
- Deviation from standards, e.g., LEI exemption, etc.
- New or changed policy, e.g., doctrinal policy changes, 100 hr, turbine single engine, etc.
- New or changed procedure, e.g., rappel procedures.

Questions regarding the PPT and development of a proposal should be directed to the Branch Chief, Aviation Business Operations, 202-205-0974.

Completed PPTs will be forwarded to the Branch Chief, Aviation Business Operations by email.

Call the number above to get a current email address.

The project, program, issue proposal process will follow steps outlined in Section 3.3 of the NASMP.

Introduction

Summarize briefly the problem/issue, project objective(s), and expected benefit(s) and cost of the proposal. Is the problem/issue an entire system or a sub-system element¹?

Problem Statement

Describe the problem/issue in terms of system or sub-system.

What does the problem/issue affect (who and/or what)? What are the impacts (safety, cost, risk, lack of standardization, etc.) of the problem/issue?

Background

Describe the background information about the project. Provide only factual information, observations or opinions should be noted as such.

CHALLENGES

Describe the known challenges of the existing system or sub-system to be addressed by the project.

OBJECTIVE(S)

Identify specific and measurable objectives of what the project is anticipated to achieve. Identify any anticipated changes in the system or sub-system.

DELIVERABLES

Identify the tangible and verifiable product or service that meets the objectives stated above.

¹ A system is an integrated set of integral elements that are combined in an operational or program to accomplish a defined objective. These elements include personnel, aircraft, facilities, technology, facilities, human factors, operations, procedures, equipment, services, and other components.

Sub-systems are integral to the operation and function of the system. E.g. performance, capability and specialized equipment for the mission would be sub-systems of an aircraft system.

Proposed METHOD

Describe and define the technical and/or non-technical aspects of the proposal. This section should include a description of the methodology to be used to complete the project, a specific plan for gathering requirements, design requirements, information technology requirements best practices for implementation, and quality assurance.

Requirements

Describe the requirements for the proposal. Requirements are quantifiable functional and technical needs of the proposal. Include diagrams or charts to visually display the information if applicable.

TECHNOLOGY

Describe any technology required to implement the project. Describe hardware, software, or network components as relevant and as understood at this time. Include diagrams or charts to visually display the proposed system components and the relationships between them.

Implementation METHOD

Describe your methodology for implementation, including best practices.

RISK AND Quality Assurance

Describe the potential risks (financial, business, cultural, operational, safety, etc.) related the project. Describe the examples of quality assurance that would be used to mitigate risks.

Expected Project Results

Using the objectives and deliverables listed in section 1 describe the technical, operational, cultural and behavior changes the project would implement.

PERFORMANCE MEASURES

*Complete the Performance Measure table below based on the objectives of the project.
Describe an assessment plan to monitor Performance Goals over time.*

Metric #	Year Initiated	Performance Baseline	Performance Goal	Actual Result
<i>1</i>	<i>2014</i>	The status quo needs 345 hours consuming 207 thousand gallons to fly 100,000 miles	Fuel use for the same distance is reduced by 10 percent	<i>Do not complete</i>

ACTION PLAN AND TIMELINE

Develop a draft action plan for the project.

Action Steps <i>What Will Be Done?</i>	Responsibilities <i>Who is the Lead?</i>	Deadline <i>By When? (mm/dd/yy)</i>	Resources <i>A. Resources Available B. Resources Needed (financial, human, political & other)</i>	Potential Barriers <i>A. Individuals B. organizations C. Mitigation</i>	Communications Plan <i>A. Who is involved? B. What methods? C. How often?</i>

Appendix 10.5

Policy Change -FMS5700 & 5709.16, Instrument Flight Conditions and Night

Date: October
13, 2010

Subject: Policy Change - FSM 5700 and 5709.16, Instrument Flight Conditions and Night Flying
To: Regional Foresters, Station Directors, Area Director, Director, Law Enforcement and Investigations, Regional Fire Directors, Regional Aviation Officers

Current Forest Service (FS) policy prohibits single-engine flight in Instrument Meteorological Conditions (IMC) and at night except for ferry and cargo- carrying flights. Technology has made single-engine turbine airplanes and helicopters as safe to fly in IMC and at night as multi-engine aircraft when equipped to do so. All Federal Aviation Regulations (FAR) which address IFR and night flight will be required for these flights.

Effective on this date, FSM 5716.12 and 5716.2 will read as follows:

FSM 5700

5716.12 – Instrument Flight Conditions

Use only multi-engine or turbine powered single-engine aircraft for flights in Instrument Meteorological Conditions (IMC) that meet the applicable Instrument Flight Rules (IFR) requirements in Federal Aviation Regulations (FAR) Part 135, Part 91 and Part 61 as referenced in FSH 5709.16 or applicable contracts.

Low-level (FSM 5716.3) fixed-wing flight operations will be conducted only in daylight Visual Flight Rules (VFR) conditions (30 minutes prior to official sunrise until 30 minutes after official sunset).

5716.2 - Night Flying

Use only multi-engine or turbine powered single-engine aircraft for night flights that meet the applicable requirements in FAR Part 91 and Part 61 as referenced in FSH 5709.16 or applicable contracts.

Pilots flying night missions shall land at airports or heliports that meet Federal Aviation Administration (FAA) lighting standards, except:

1. This restriction does not apply to helicopter flights utilizing Night Vision Goggles (NVG).

Low-level helicopter flight operations will only be conducted using NVG. Helicopters will be approved for such an operation.

Reciprocating engine powered single-engine aircraft flights at night are authorized only for ferry and cargo-carrying missions at pilot-in-command discretion and in accordance with FAR Part 91.

Low-level (FSM 5716.3) fixed-wing flight operations will be conducted only in daylight Visual Flight Rules (VFR) conditions (30 minutes prior to official sunrise until 30 minutes after official sunset).

Regional Foresters, Station Directors, Area Director, Director, Law Enforcement and Investigations, Regional Fire Directors, Regional Aviation Officers 2

Effective on this date, FSH 5709.16, 11.26 will read as follows.

FSH 5709.16

11.26 – Operational Requirements – All Pilots

Requirements for all pilots flying Forest Service missions are as follows:

1. Instrument Flight Conditions. Use only multi-engine or turbine-powered single-engine aircraft for flights in Instrument Meteorological Conditions (IMC) that meet the applicable Instrument Flight Rules (IFR) requirements in Federal Aviation Regulations (FAR) Part 135, Part 91 and Part 61 as referenced in FSH 5709.16 or applicable contracts.

Low-level (FSM 5716.3) fixed-wing flight operations will be conducted only in daylight Visual Flight Rules (VFR) conditions (30 minutes prior to official sunrise until 30 minutes after official sunset).

2. FSM 5716.2 - Night Flying. Use only multi-engine or turbine-powered single-engine aircraft for night flights that meet the applicable requirements in FAR Part 91 and Part 61 as referenced in FSH 5709.16 or applicable contracts.

Pilots flying night missions shall land at airports or heliports that meet Federal Aviation Administration (FAA) lighting standards, except:

1. This restriction does not apply to helicopter flights utilizing Night Vision Goggles (NVG).

Low-level helicopter flight operations will only be conducted using Night Vision Goggles (NVG). Helicopters will be approved for such an operation.

Reciprocating engine powered single-engine aircraft flights at night are authorized only for ferry and cargo-carrying missions at pilot-in-command discretion and in accordance with FAR Part 91.

Low-level (FSM 5716.3) fixed-wing flight operations will be conducted only in daylight Visual Flight Rules (VFR) conditions (30 minutes prior to official sunrise until 30 minutes after official sunset).

This policy change will be in effect until rescinded.

Questions regarding this policy change should be directed to Paul Linse, 202-205-0974.

/s/ James E. Hubbard

JAMES E. HUBBARD

Deputy Chief, State and Private Forestry

Appendix 10.6

Regional Contact List

Region 8 Aviation Management			
Position	Name	Office	Cell
Regional Aviation Officer	Lynne Howard	770-237-0119 / ext 1008	678-622-0489
Regional Aviation Safety Manager	VACANT	404-347-7239	404-354-4182
Helicopter Ops. Specialist	Scott Fry	770-237-0119 / ext 1002	404-670-6729
Helicopter Inspector Pilot	Jerry Perry	770-237-0119 / ext 1014	404-558-3075
Fixed Wing Operations Specialist	VACANT	770-237-0119 / ext	
Fixed Wing Pilot	Steve Talick	770-237-0119 / ext 1003	770-335-9595
Fixed Wing Inspector Pilot Lead 89	Aaron Knobloch	770-237-0119 / ext 1009	770-880-5385
Maintenance Inspector	Tim Rikard	770-237-0119 / ext 1015	470-233-3637
Miscellaneous			
Regional Av. Contracting Officer	Gloria Sanders	404-347-4023	404-309-3880
Regional Fire Director -			
Director of FAM	Shardul Raval	404-347-2347	404-909-0239

2015 SOUTHEAST REGION AIRCRAFT

Three aircraft are available in the Region year-round.

N 417SH	King Air E-90	\$598/HR
N 182Z	King Air 200	\$1224/HR
N 106Z	Bell Jet Ranger	\$651/HR
N10S	Cessna Citation	\$1900/HR

SCHEDULE ALL AIRCRAFT THROUGH SACC.

Appendix 10.8



United States
Department of
Agriculture

Forest
Service

Southern
Region

1720 Peachtree Rd., NW
Atlanta, Georgia 30309

File Code: 5700
Route To:

Date: 04/08/15

Subject: Southern Region Type 3 Helicopter "Limited Use" Authorization

To: Forest
Supervisors

This Letter of Delegation is issued in accordance with direction found in the Interagency Helicopter Operations Guide (IHOG), Chapter 2, Section III, Limited Use Designation. The IHOG provides for the designation of Standard Category Type 3 Helicopters as Limited Use for certain specific missions (IHOG pages 2-4, 5) by the Regional or State Aviation Officer. Type 3 Call-When-Needed and Exclusive Use helicopters may operate as "Limited Use" within the Southern Region provided adherence to the following guidance. This letter allows all Type 3 helicopters operating within the Region to be designated as either Limited or Standard Category, depending on staffing and use, provided approval is issued by the Forest Fire Staff Officer, Forest Fire Management Officer, or Forest Aviation Officer, and documented.

1. Passenger Transport. The helicopter shall be fully staffed with a Helicopter Manager and two Helicopter Crewmembers when operations entail the transport of personnel - Troop shuttles etc. (hand crews, fire fighters or other working teams) to and from helispots or other landing areas where they disembark to work in the field.
2. Reconnaissance/Surveys, Air-Attack, Helicopter Coordinator, Infrared, and Aerial Mapping: i.e.. A minimum of one HECM shall remain at the departure point when the helicopter is performing these types of missions from any field location, established airports and Helibases are excluded. To determine the suitability of the landing area, a helicopter manager shall be aboard the helicopter when landing other than the departure point that is not supervised by qualified helicopter Crewmembers.
3. Suppression. On staffing class (D or E days), the Exclusive Use (EU) Suppression funded/classified helicopter shall be fully staffed and able to respond to a dispatch. All other class days, the EU helicopter may initial attack (IA) (bucket operations only) local agreement area wildfires with only a Helicopter Manager present; a Helicopter Crewperson is highly recommended to assist Manager. When possible, a Helicopter Crewmember (HECM) should be deployed to the dip-site to observe operations. These staffing guidelines apply to both Exclusive Use and CWN helicopters.
4. Aerial ignition. The minimum personnel required to perform aerial plastic sphere operations are a Helicopter Manager, Burn Boss/Firing Boss, and Plastic Sphere Dispenser Operator (PLDO). A HECM qualified person shall remain at the departure point if the Manager is aboard the helicopter arriving at a remote helispot. A HECM qualified person does not need to remain at the departure point if the Manager is aboard when working out of an established airport or helibase. Helitorch operations require a full helitorch module. These requirements are established in the Interagency Aerial Ignition Guide as policy.

This authorization shall remain in effect unless rescinded by the Regional Aviation Officer (RAO) or designated representative. If you have any questions or need further information, please contact Jack Finley at 404-909-0248.

/s/ *Lynne Howard*
LYNNE HOWARD
Regional Aviation Officer

Appendix 10.9

File Code:

Route To:**Subject:**

Authorization for Law Enforcement and Investigations Employees to Fly on Department of Justice (DOJ) and Department of Homeland Security (DHS) Aircraft

To:

Director, Law Enforcement and Investigations

This letter will permit Forest Service (FS) Law Enforcement & Investigations (LEI) employees on official duty to fly aboard Department of Justice (DOJ) and Department of Homeland Security (DHS) owned and operated aircraft while performing joint law enforcement operations and coordinating missions with the respective agencies.

Agreements with DOJ and DHS regarding joint law enforcement aviation operations should be used to provide overall operational requirements and procedures for all agencies.

This letter specific to DOJ and DHS owned and operated aircraft used by FS LEI employees on official duty will meet the intent of FS Manual (FSM) 5704.9 which requires that all FS employees “shall fly only in approved government (refer to Government Aircraft definition in FSM 5705) aircraft flown by an approved pilot(s).”

The FS law enforcement program has unique mission requirements and a need for close interagency coordination and cooperation with the DOJ and DHS.

Field-level LEI employees are required to notify the Regional Special Agent-in-Charge and Washington Office employees the Director of LEI, when using this approval.

The Director of LEI is responsible for ensuring overall employee safety under this exemption.

This letter rescinds the Flight Authorization on Department of Homeland Security Aircraft letter dated May 20, 2008.

/s/ James E. Hubbard

JAMES E. HUBBARD

Deputy Chief, State and Private Forestry

cc: Robert A Baird, Dan Olsen, Ron Hanks, John A Nelson, Thomas A Cook, Tom Harbour, Ezequiel N Parrilla, Caleb A Berry

Forest Aviation Plan Supplement Checklist 2015

egap erutangiS ♣

noitazinagrO ♣

- o Positions

- o Names of incumbents

- o Roles/Responsibilities

snoissim noitaivA nommoC ♣

- o Fire

- o Non-fire

- o Administrative

evisulcxE ♣-Use aircraft in area

serudecorp gniredrO ♣

serudecorp gniwolof thgilF ♣

nalP snoitacinummoC ♣

- o Frequencies

atimiL/snoitcirtseR lacoL ♣tions

- o Specific direction

- o Dip sites

- o Sensitive areas

sdrazaH laireA ♣

saera esu laicepS ♣

- o MTR

- o MOA

ssecorP tmemegagnesid ♣

esnopser tnedicnI/tnediccA ♣

seitilicaF lacideM ♣

stopsileh nommoc/leuF/stropria ♣

gniniarT leveL tseroF ♣

srotarepooC ♣

ceS ♣urity Plan

- o Location

- o Initiation or contacts for protocol

Appendix suggestions

nalP snoitarepO esaB noitaivA ♣

nI ♣-briefing Orientation Package

ediuG esnopseR tnedicnI/tnediccA ♣

sthgilf nommoc rof tmemssessA ksiR ♣

Appendix 10.11

49 CFR 1542 Airport Security

"Each airport operator required to have a security program under §1542.103(a) must establish at least one Security Information Display Area (SIDA). Each airport operator required to establish a SIDA and must establish and carry out measures to prevent the unauthorized presence and movement of individuals in the SIDA."

This can be accomplished by authorizing designated individuals to provide an escort to transient aircrews and mechanics.

49 CFR 1542.211(e) *Escorting*. Each airport operator must establish and implement procedures for escorting individuals who do not have unescorted access authority to a secured area or SIDA that—

- (1) Ensure that only individuals with unescorted access authority are permitted to escort;
- (2) Ensure that the escorted individuals are continuously accompanied or monitored while within the secured area or SIDA in a manner sufficient to identify whether the escorted individual is engaged in activities other than those for which escorted access was granted, and to take action in accordance with the airport security program;
- (3) Identify what action is to be taken by the escort, or other authorized individual, should individuals under escort engage in activities other than those for which access was granted;
- (4) Prescribe law enforcement support for escort procedures; and
- (5) Ensure that individuals escorted into a sterile area without being screened under §1544.201 of this chapter remain under escort until they exit the sterile area, or submit to screening pursuant to §1544.201 or §1546.201 of this chapter.

SOUTHERN REGION - PROJECT AVIATION SAFETY PLAN (PASP)**Use this template for all Regional Aviation Projects****PROJECT NAME****Name of Forest**

Mission:	Project Name:	Unit:	Fixed Wing <input type="checkbox"/> Rotor Wing <input checked="" type="checkbox"/>
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Anticipated Project Date(s):

Project Plan Prepared by:	Title:	Date:
Project Plan Reviewed by:	Title: Project Aviation Manager	Date:
Project Plan Reviewed by:	Title: Forest Aviation Officer	Date:
Project Plan Reviewed by:	Title: Forest Fire Management Officer	Date:
Project Plan Reviewed by:	Title: Regional Aviation Safety Mgr.	Date:
Project Plan Reviewed by:	Title: Regional Aviation Officer	Date:
Project Plan Approved by: (Line Officer)	Title:	Date:

P. GENERAL LOCATION/DESCRIPTION**C** (Provide description and attach map—map must include aerial hazards)

JUSTIFICATION FOR AIRCRAFT USE:**AIRCRAFT INFORMATION**Cooperator ☐ / Agency ☐ / Vendor ☐ / Military ☐ /RAIDS ☐ / Other ☐

Type of Flight:

Desired Make/Model:

Vendor:

Phone:

Cell:

Aircraft N#:

Make & Model:

Aircraft Color:

Pilot Name:

Pilot Contact number:

Pilot Carded: ☐ Yes ☐ No Expiration Date:A/C Carded: ☐ Yes ☐ No Expiration Date:

Type Procurement:

Charge Code:

Estimated Flight Hours:

Estimated Cost:

SUPERVISION

Project Aviation Manager:

Contact Number:

Forest/Unit Aviation Officer:	Contact Number:
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PERFORMANCE PLANNING

The pilot is responsible for the accurate completion of load calculations. Trained personnel shall ensure that aircraft scheduled are capable of performing the mission(s) safely and within the capabilities of the aircraft selected. The Helicopter or Flight Manager shall ensure that manifests and load calculations/weight and balance calculations are completed properly using accurate environmental and aircraft data.

PARTICIPANTS- list individuals involved in flight(s)

Name:	Project Role/Responsibility:
Name:	Project Role/Responsibility:
Name:	Project Role/Responsibility:
Name:	Project Role/Responsibility:
Name:	Project Role/Responsibility:
Name:	Project Role/Responsibility:

CARGO

Weight:	Hazardous Materials <input type="checkbox"/> Yes <input type="checkbox"/> No	Pilot Briefed <input type="checkbox"/> Yes <input type="checkbox"/> No
Weight:	Hazardous Materials <input type="checkbox"/> Yes <input type="checkbox"/> No	Pilot Briefed <input type="checkbox"/> Yes <input type="checkbox"/> No

FLIGHT FOLLOWING

Flight Follow: <input type="checkbox"/> AFF <input type="checkbox"/> Radio (15 minute check in)	Request or Flight #: <input type="checkbox"/>
FM Receive:	FM Transmit:
FM Receive:	FM Transmit:
FM Receive:	FM Transmit:
AM Air to Air:	AM Unicom:
	Tones:
	Tones:
	Tones:
	Other:

MILITARY TRAINING ROUTE (MTR) or MILITARY OPERATING AREA (MOA)

INFORMATION -Aircraft Manager must confirm with dispatch prior to the flight that affected routes' schedules have been contacted for route activity

MTR/ MOA	Route Legs-Altitude	Activity	Time	Time Zone
		<input type="checkbox"/> Hot <input type="checkbox"/> Cold	Start Stop	<input type="checkbox"/> UTC <input type="checkbox"/> Local
		<input type="checkbox"/> Hot <input type="checkbox"/> Cold	Start Stop	<input type="checkbox"/> UTC <input type="checkbox"/> Local
		<input type="checkbox"/> Hot <input type="checkbox"/> Cold	Start Stop	<input type="checkbox"/> UTC <input type="checkbox"/> Local
		<input type="checkbox"/> Hot <input type="checkbox"/> Cold	Start Stop	<input type="checkbox"/> UTC <input type="checkbox"/> Local

PERSONAL PROTECTIVE EQUIPMENT

Type of Operation – check applicable boxes	Personnel Protective Equipment Requirements
<input type="checkbox"/> Rotor Wing Ground Operations	Fire resistant clothing, hardhat w/chin strap or approved aviator flight helmet, fire resistant and/or leather gloves, all leather boots, eye protection, hearing protection.
<input type="checkbox"/> Rotor Wing All Flights	Fire resistant clothing, approved aviator flight helmet, fire and/ or leather gloves, all leather boots, hearing protection.
<input type="checkbox"/> Doors off Flight	Personnel will remain seated and inside fuselage during all flights,

	approved secondary restraint harness for doors off flights (only for PLDO, HRAP, HRSP, Aerial Photography, IR Operator, ACETA Gunner, Cargo Letdown)
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SEARCH AND RESCUE – EMERGENCY RESPONSE

Crash/Search and Rescue Procedures:

- ~ **Contact Dispatch who will initiate the Interagency Aviation Incident/Accident Response Plan.** This initiation includes accomplishing all emergency and administrative notifications.
- ~ **On-site emergency response will be handled by the aircraft personnel and other project personnel, and will comply with appropriate guides (examples: Interagency Helicopter Operations Guide (IHOG) or Forest's Aviation Incident/Accident Response Guide.**

SPECIAL CONSIDERATIONS and JUSTIFICATIONS:

(List justifications for deviating from SOP, policy etc.)

CRASH RESCUE/MEDI-EVAC PLAN – highlighted area is the minimum information regarding medical/emergency response to be filled out prior to review and approval. The remaining fields should be completed as much as practical prior to the day of operation.

General Instructions:

In the event of an accident, the _____ Operations project manager will supervise and coordinate the crash rescue activities. Specific crash rescue duties will be assigned to _____ operations personnel each morning before flights of any kind. Crash rescue and first aid equipment will be located near the _____ operations site and equipment's location made known to all personnel. Information and instructions will be sent/ received through the local dispatch office or communications.

EMT (S) ON PROJECT

Names

AVAILABLE MEDIVAC HELICOPTERS

FAA # HEMB or Contact

Litter/Rappel/Extraction Capable?

Remarks					
FAA #	HEMB or Contact				
Litter/Rappel/Extraction Capable?					
Remarks					
NEAREST MEDICAL FACILITY		Name/Location			
Latitude	Longitude	Contact Freq			
VOR	Nautical Miles	DEG			
NEAREST BURN CENTER		Name/Location			
Latitude	Longitude	Contact Freq			
VOR	Nautical Miles	DEG			
LIFEFLIGHT		Name/Location			
Type Aircraft	Phone #	Contact Freq			
SPECIFIC INFORMATION AND INSTRUCTIONS (Utilize cell phone if possible. Do not use names over the radio)					
1.	Nature of the injury(s)/illness				
2.	Is medical help needed? If available supply vital signs!				
3.	What transportation is needed? Is patient(s) ambulatory?				
4.	Location of victim.				
5.	Route to be taken (use land marks as guide).				
6.	Equipment needed.				
7.	Name of contact on site.				
8.	Notify appropriate agency line officer.				
SITE CONDITIONS					
Latitude:		Longitude:	Contact Freq:		
Wind Speed:		Elevation (msl):	Temperature:		
Terrain Factors:		Helispot Minimum Size:			
Proximity of Helispot to Injury Site :		Visibility/Sunrise/Sunset Limitations:			
Flight Hazards:					
Other Aircraft in Area (Call Signs & Freq.):					
Ground Contact & Frequencies:					
COMMUNICATIONS PLAN					
Legend		Frequency List:			
		Name	RX / Tone	TX / Tone	
Command					
Air to Ground					
Tactical					
Flight Following					
Air to Air					

Dispatch

Risk Assessment Matrix				
	Severity			
Likelihood	Negligible IV	Marginal III	Critical II	Catastrophic I
Frequent A				
Probable B				<i>High 4</i>
Occasional C			<i>Serious 3</i>	
Remote D		<i>Medium 2</i>		
Improbable E	<i>Low 1</i>			

Severity Scale Definitions	
Catastrophic	Results in fatalities and/or loss of the system.
Critical	Severe injury and/or major system damage.

Marginal	Severe injury and/or minor system damage.	
Negligible	Less than minor injury and/or less than minor system damage.	
Assessment and Mitigation of:		
Likelihood Scale Definitions		
Frequent	Individual Fleet	Likely to occur often. Continuously experienced
Probable	Individual Fleet	Will occur several times. Will occur often.
Occasional	Individual Fleet	Likely to occur sometimes. Will occur several times.
Remote	Individual Fleet	Unlikely to occur, but possible. Unlikely but can reasonably be expected to occur
Improbable	Individual Fleet	So unlikely, it can be assumed it will not occur. Unlikely to occur, but possible.

The below matrix is utilized for decision making during the operation period

Appropriate Management Level for Operational Risk Decisions		
Risk Level	Fire	Project
High	Incident Commander or Operations Sections Chief	Line Officer/Manager
Serious	Incident Commander or Operations Sections Chief	Line Officer/Manager
Medium	Air Operations Branch Director	Project Aviation Manager
Low	Base Manager	Helicopter or Flight Manager

System-								
		Pre Mitigation				Post Mitigation		
Sub System	Hazards	Likelihood	Severity	Risk Level	Mitigation	Likelihood	Severity	Risk Level
EXAMPLE: Environment	Conflicting Airspace Environment	Occasional	Critical	Serious	Local agency must provide orientation and “situational awareness” overview to SEAT pilots on Special Use Airspace, MTR, TFR, ect. Assure that dispatch and aviation personnel are trained. In dispatch procedures for SUA. Use aerial supervision when available.	Remote	Critical	Medium
Final Assessment Value:					Prepared By:		Date:	
Operation Approved By:					Title:		Date:	

PROJECT AVIATION SAFETY PLAN BRIEFING

A copy of this briefing page will be submitted to the Agency Forest Aviation Officer/Unit Aviation Manager within 5 days of the completion of this project.

Briefing Leader: _____

Briefing Date: _____ Time: _____ Location: _____

Discussion Items:

- a. Hazard Analysis (as outlined in plan)
- b. Safety Air Ops (Ground)
- c. Safety Air Ops (Flight)
- d. Military Training Routes
- e. Flight Following
- f. Frequencies
- g. Fueling
- h. Emergency Evacuation. Plan
- i. Authorities
- j. Weather Considerations
- k. Other

SPECIFIC TO LAW ENFORCEMENT MISSIONS—refer to the **LAW ENFORCEMENT AVIATION MANAGEMENT PLAN** for protocol for these items:

- Weapons carried aboard aircraft
- Hazardous Materials---mace/pepper spray
- Canines aboard aircraft
- Prisoner Transport
- Covert flight following procedures
- Risk assessment protocol for unplanned landings, etc

**PROJECT AVIATION SAFETY PLAN BRIEFING
SIGNATURE PAGE**

Attendees Signature and Concurrence:

Name	Project Responsibility/Role	Date

Regional Aviation Safety Plan Guide for Forest or Unit Plans

The format of the new National Aviation Safety and Management Plan (NASMP) is changed from the format we have used in the past. We will transition to this format for the Regional Aviation Safety and Management Plan (RASMP) as soon as possible. Because this will require extensive re-writing of all submitted Plans we have provided a guide to assist in this process.

This guide is provided to assist transition to National Aviation Safety Plan format and meet several objectives for Plans created in the Region. Each aviation Plan is the description of how to perform aviation services safely and efficiently. One objective is to offer suggestions for minimizing the amount of work required to generate a comprehensive Plan. Another is to make changes to the Plan format that follows the National Plan. Another objective is to incorporate the items that are addressed in the NASMP, but not included in the RASMP or Forest and Unit Plans. The last objective is to provide processes that can accommodate change while maintaining function.

The new format titles for each section are identified, followed by the previous Regional titles and Regional content information, shown in parentheses, appropriate for the section. There are new titles that will require new or original input. You may be able to use the NASMP as a guide for a new section. Some references can be made to existing Policy without listing the coverage in it's entirety-i.e. Statements that indicate compliance with the reference Plan guidance include: "In Accordance With" (IAW), or "As Described in the NASMP". The term "As desired" indicates that you can add items, use "Reserved" to indicate a part not needed at this time.

Some parts of the new Plan are extensive in that they address many items not addressed in the earlier version. Some parts are not applicable and will be labeled "Reserved". If they are needed in the future they can be updated at any time. The goal should be to fill in those parts in a progressive fashion, keeping in mind that we desire to have a complete transition before the 2012 Plan is submitted. We will be updating the RASMP Plan and forwarding parts as they are completed. Forests and Units should forward updated parts as they are available.

The simplest approach may be to follow the new format and cut and paste and missing information or old Plan items to the new format. The new format requires that Forest and Unit Plans will be divided into the Sections as listed and a separate complete document forwarded to the Region office for review/approval.

The Regional Plan has additional materials that were appropriate in order to function as a guide for the other entities using the Regional Aviation Safety and Management Plan. Your local Plans will contain what you consider appropriate-the only requirement is to follow the format, include all titles with information or appropriate notation. This is meant as a guide to assist in meeting the goal of transitioning the Regional Plans to the new format as soon as possible with as little difficulty as possible

1.0 Aviation Management Plan

1.1 Purpose- Include (Scope, Purpose, and Objectives)

1.2 Mission Statement- include (Overview)

1.3 Leaders Intent-New, Recommend: Summarize NASMP, or create to reflect local need

1.4 Aviation Doctrine-New, Recommend: Summarize NASMP, (IAW, reference to Doctrine website, use link (<http://www.fs.fed.us/fire/doctrine/index.html>))

1.5 National Aircraft Management Strategy-New, Recommend: Summarize NASMP

1.6 Authority-New, Recommend: Summarize NASMP, or create to reflect local need

1.7 General policy-New, Recommend: Summarize NASMP, or create to reflect local need

2.0 Aviation Organization and Responsibilities

2.1 Organization-(Describe Positions as necessary for your use)

2.2 The Washington Office (WO) Staff (Not necessary to repeat)

2.3 The Regional Office (RO) Aviation Staff (As desired)

2.4 Forest Aviation Staff- Include

2.5 Additional Aviation Positions-As desired

2.6 National Groups/Committees-As desired

2.7 Program Overview-Use previous Overview information

3.0 Administrative Direction (Chapter 4 of old Plan)

3.1 General-follow NASMP/RASMP

3.2 Reporting and Documentation Requirements-follow NASMP/RASMP

3.3 Aviation Plans-

3.4 Aircrew Orientation Briefing Package

3.5 Land Use Policy for Aviation Activities

3.6 Budget

3.7 Contracting

3.8 Aircraft Contracting Start / Modification/ Extension

3.9 Contractor Performance

3.10 End Product Contracts

3.11 Supplemental Fire Aircraft Acquisition

3.12 Cooperator Aircraft

3.13 Aircraft Administrative Use and Reports

3.14 Dispatching

3.15 Flight Use Reports-Daily, Annual, Senior Travel etc.

3.16 Charge Codes

3.17 Working Capital Fund (WCF)

3.18 Federal Excess Property (FEPP)

3.19 Financial Business Management System (FMBS)

3.20 Program Reviews

3.21 New Program Requests

4.0 Aviation safety Management Systems (Chapter 5 of old Plan)

4.1 General

4.2 Safety Management Systems (SMS)

4.3 Policy

4.4 Risk Management

4.5 Assurance

4.5.1 Safety and Technical Assistance Team (STAT)

4.5.2 Aviation Safety Communiqué

4.5.3 Aircraft Accident Investigation Process

4.5.4 Project Aviation Safety Planning (PASP)

4.6 Promotion

4.6.1 Human Factors

4.6.2 Aviation Safety Awards Program

4.7 National Fire and Aviation Operations Alert System

5.0 Aviation Operations (Section 2 of old Plan)

5.1 General

5.2 Operational Guides and Handbooks

5.3 Public/ Civil Aircraft Operations

5.4 Employee on Non-Forest Service Aircraft

5.5 Emergency Exceptions to Policy

5.6 Category of Flight

5.7 Flight Planning

5.8 Flight Following

5.9 Radio Frequency Management/ Communications

5.10 Overdue or Missing Aircraft

5.11 Mishap Response

5.12 Passengers

5.13 Transport of Hazardous Materials

5.14 Invasive Species Control

5.15 Fire Chemicals and Aerial Application Policy near Waterways

5.16 Search and Rescue (SAR)

5.17 Airtanker Operations

5.17.1 Very Large Airtankers (VLAT)

5.17.2 Airtanker Base Personnel

5.18 SEAT Operations

5.19 Aerial Supervision/ Leadplane Operations

5.19.1 Aerial Supervision Personnel

5.20 Helicopter Operations

5.20.1 Helitack

5.20.2 Rappel

5.20.3 Cargo Letdown

5.20.4 Rope Assisted Deployment System (RADS)

5.21 Aerial Ignition Operations

5.22 Wild Horse and Burro Operations (Reserved)

5.23 Aerial Capture, Eradication and Tagging of Animals (ACETA) (Reserved)

5.24 Smokejumper Operations (Reserved)

5.24.1 Smokejumper Personnel

5.24.2 Smokejumper Aircraft

5.25 Light Fixed-Wing Operations

- 5.25.1 Reconnaissance or Patrol Flights
- 5.25.2 Single Engine Night Flights
- 5.25.3 Backcountry Airstrip Operations
- 5.26 Law Enforcement and Investigation (LEI) Operations
 - 5.26.1 Special Law Enforcement Aviation Projects
 - 5.26.2 Rapid Assessment and Initial Detection (RAID)
 - 5.26.3 LEI Training
 - 5.26.4 Civil Air Patrol (CAP) (Reserved)
 - 5.26.5 Department of Homeland Security (DHS)
 - 5.26.6 LEI Personal Protective Equipment (PPE) During Tactical Operations (Reserved)
 - 5.26.7 Emergency Operations
 - 5.26.8 LEI Short-Haul and Hoist Operations (Reserved)
- 5.27 Unmanned Aerial Systems (UAS) (Reserved)
- 6.0 Aviation Training
 - 6.1 Aviation Training for All Flight Activities and Positions
 - 6.2 Responsibility
 - 6.3 Instructor Standards
 - 6.4 Records Management
 - 6.5 Tuition and Travel
 - 6.6 Development
 - 6.7 IAT/ NWCG Crosswalk
 - 6.8 Contract Contracting Officer Representative (COR) Requirements
- 7.0 Airspace
 - 7.1 Interagency Airspace Coordination
 - 7.2 Fire Traffic Area (FTA)
 - 7.3 Temporary Flight Restriction (TFR)
 - 7.4 Aircraft Transponder Code (Firefighter)
 - 7.5 Airspace Boundary Plan
 - 7.6 Airspace Deconfliction
 - 7.7 Airspace Conflicts
 - 7.8 Airspace Agreements- Memorandum of Understanding
- 8.0 Aviation Security
 - 8.1 Aviation Security
 - 8.2 Forest Service Facilities Security Risk Assessments
 - 8.3 Forest Service Security Response Actions
 - 8.4 Regional Homeland Security Advisory System Response Plan
 - 8.5 Facility Homeland Security Advisory System Response Plan
 - 8.6 General Aviation
 - 8.7 Aircraft Security Information (Cooperators)
 - 8.8 TSA Commercial Airport Security
 - 8.9 TSA Security requirements for non-commercial operations